Alberta Energy Regulator

Upstream Petroleum Industry Flaring and Venting Report

Industry Performance for Year Ending December 31, 2013

November 2014

ST60B-2014

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Inquiries: 1-855-297-8311
E-mail: inquiries@aer.ca
Website: www.aer.ca

Contents

Executive Summary iii

1 Introduction 1

2 Solution Gas Conserved, Flared and Vented, 1996–2013 3

3 Solution Gas Flaring and Venting Performance 4

4 Flaring from All Upstream Oil and Gas Sources, 2000–2013 7

5 Venting from All Upstream Oil and Gas Sources, 2000–2013 12

6 Provincial Solution Gas Flaring and Venting Maps 15

7 Solution Gas Emissions Ranking of Operators for 2013 18

8 Tables 20

Operators with the Largest Volumes of Produced Solution Gas in 2013 21

Operators with the Largest Volumes of Vented Solution Gas in 2013 23

Provincial Ranking of Operators—2013 Flared and Vented Volume 25

Field Centre Rankings of Operators—2013 Flared and Vented Volume 39

Bonnyville 39

Drayton Valley 41

Grande Prairie 45

High Level 49

Medicine Hat 50

Midnapore 54

Red Deer 58

St. Albert 63

Wainwright 68

Executive Summary

The Alberta Energy Regulator (AER) annually publishes *ST60B: Upstream Petroleum Industry Flaring and Venting Report* to fulfil the commitment it made in *Directive 060: Upstream Petroleum Industry Flaring, Incinerating, and Venting* to make flaring and venting data accessible.

The report's primary focus is on solution gas flaring and venting from crude oil and crude bitumen production operations. The report includes flared and vented volumes from in situ bitumen facilities, gas batteries, well testing, gas plants, gas gathering systems, natural gas transmission lines, and coalbed methane and shale gas activities. The report does not include flared and vented volumes from bitumen upgraders and oil sands mine operations. The data used to compile the report were obtained from Canada's Petroleum Information Network (PETRINEX) and the AER.

Key statistics from 2013*:

- Crude bitumen production increased by 10.4 per cent to 65 million cubic metres (10^6 m^3).
- Crude oil production increased by 4.5 per cent to 33 10^6 m^3.
- Solution gas conservation increased to 95.3 per cent from 94.2 per cent in 2012.
- Solution gas flared from crude bitumen and crude oil batteries was 495 10^6 m^3, down from 547 10^6 m^3 in 2012, a 9.5 per cent decrease.
  - Flaring from crude bitumen batteries was 67 10^6 m^3, down from 71 10^6 m^3 in 2012, a 5.9 per cent decrease.
  - Flaring from crude oil batteries was 429 10^6 m^3, down from 477 10^6 m^3 in 2012, a 10.1 per cent decrease.
- Solution gas vented from crude bitumen and crude oil batteries was 403 10^6 m^3, down from 430 10^6 m^3 in 2012, a 6.3 per cent decrease.
  - Venting from crude bitumen batteries was 246 10^6 m^3, down from 298 10^6 m^3 in 2012, a 17.6 per cent decrease.
  - Venting from crude oil batteries was 158 10^6 m^3, up from 132 10^6 m^3 in 2012, a 19.3 per cent increase.

* Due to rounding, some totals may not exactly match the sum of the source categories.

- Flaring and venting from other sources
  - Gas batteries
    - Flaring: 36 10^6 m^3, up from 28 10^6 m^3 in 2012, a 25.4 per cent increase.
    - Venting: 28 10^6 m^3, up from 23 10^6 m^3 in 2012, a 23.8 per cent increase.
  - Well testing
    - Flaring: 198 10^6 m^3, up from 189 10^6 m^3 in 2012, a 5.0 per cent increase.
    - Venting: 29 10^6 m^3, up from 26 10^6 m^3 in 2012, a 10.8 per cent increase.
  - Gas plants
    - Flaring: 111 10^6 m^3, down from 134 10^6 m^3 in 2012, a 16.9 per cent decrease.
    - Venting: 4 10^6 m^3, down from 5 10^6 m^3 in 2012, a 28.1 per cent decrease.
  - Gas gathering systems
    - Flaring: 53 10^6 m^3, up from 40 10^6 m^3 in 2012, a 31.9 per cent increase.
    - Venting: 8 10^6 m^3, up from 7 10^6 m^3 in 2012, a 17.7 per cent increase.
  - Transmission lines
    - Flaring: 2 10^6 m^3, up from 1 10^6 m^3 in 2012, an 81.8 per cent increase.
    - Venting: 7 10^6 m^3, down from 9 10^6 m^3 in 2012, a 22.2 per cent decrease.
  - Coalbed methane and shale gas wells
    - Flaring: 4 10^6 m^3, up from 1 10^6 m^3 in 2012, a 343.7 per cent increase.
    - Venting: 0.5 10^6 m^3, down from 0.9 10^6 m^3 in 2012, a 35.3 per cent decrease.

For questions about this report, e-mail the AER Environment and Operational Performance Branch, Resource Compliance Section, at ResourceCompliance@aer.ca or call the Customer Contact Centre at 403-297-8311 or toll free at 1-855-297-8311.

1 Introduction

The Alberta Energy Regulator (AER) is the province's single energy regulator whose core functions include conserving Alberta's energy resource, protecting public safety and the environment, and disseminating energy-related information. The AER's activities on reducing flaring and venting, including its partnership work, address conservation, public safety, and information dissemination.

The AER worked with the consensus-based, multistakeholder Flaring and Venting Project Teams of the Clean Air Strategic Alliance (CASA) to develop flaring and venting management recommendations for the Province of Alberta. The recommendations included determining flaring and venting baselines, flaring reduction targets, and operational requirements for the upstream oil and gas industry. The AER adopted the recommendations put forward by CASA and incorporated them into the 1999 edition of *Guide 60: Upstream Petroleum Industry Flaring Guide* (subsequently known as *Directive 060: Upstream Petroleum Industry Flaring, Incinerating, and Venting*). The AER will continue to work with CASA, industry, and other stakeholders to reduce the volume of solution gas flared and vented in Alberta.

ST60B: Upstream Petroleum Industry Flaring and Venting Report, published annually, fulfills the AER's commitment to report flaring and venting volumes, as set out in *Directive 060*.

The report's primary focus is on solution gas flaring and venting from crude oil and crude bitumen production operations. The report includes flared and vented volumes from in situ bitumen facilities, gas batteries, well testing, gas plants, gas gathering systems, natural gas transmission lines, and coalbed methane and shale gas activities. The report does not include flared and vented volumes from bitumen upgraders and oil sands mine operations. The data used to compile the report were obtained from Canada's Petroleum Information Network (PETRINEX) and the AER.

For this report:

- Crude bitumen is oil produced within the AER-designated oil sands areas[1] that has a density of 920 kilograms per cubic metre (kg/m^3) or greater.
- Crude oil is all other crude oil production in the province, including oil with a density of 920 kg/m^3 or greater produced outside the designated oil sands areas.
- Conservation = $\dfrac{\text{[Volume of gas produced} - \text{(Volume of gas flared + Volume of gas vented)]}}{\text{Volume of gas produced}}$
- All reported flared volumes include gas that was incinerated, unless otherwise stated.
- Venting is defined as the noncombusted release of gas to the atmosphere.

[1] See *ST98-2014: Alberta's Energy Reserves 2013 and Supply/Demand Outlook*, figure R3.1, available on the AER website, www.aer.ca.

For information on flaring, incinerating, and venting requirements, see *Directive 060*. For questions about this report, e-mail the AER Environment and Operational Performance Branch, Resource Compliance Section, at ResourceCompliance@aer.ca or call the Customer Contact Centre at 403-297-8311 or toll free at 1-855-297-8311.

2 Solution Gas Conserved, Flared and Vented, 1996–2013

Gas conservation is the recovery of solution gas to use as fuel for production facilities, as well, to repair the underground reservoir, from oil or condensate pools, or to generate power, among other uses.

Industry achieved a 91.3 per cent solution gas conservation rate in 2013, compared with 94.7 per cent in 2012 (see figure 1).

Data from all crude oil and crude bitumen batteries were used in calculating the percentage of solution gas conserved.

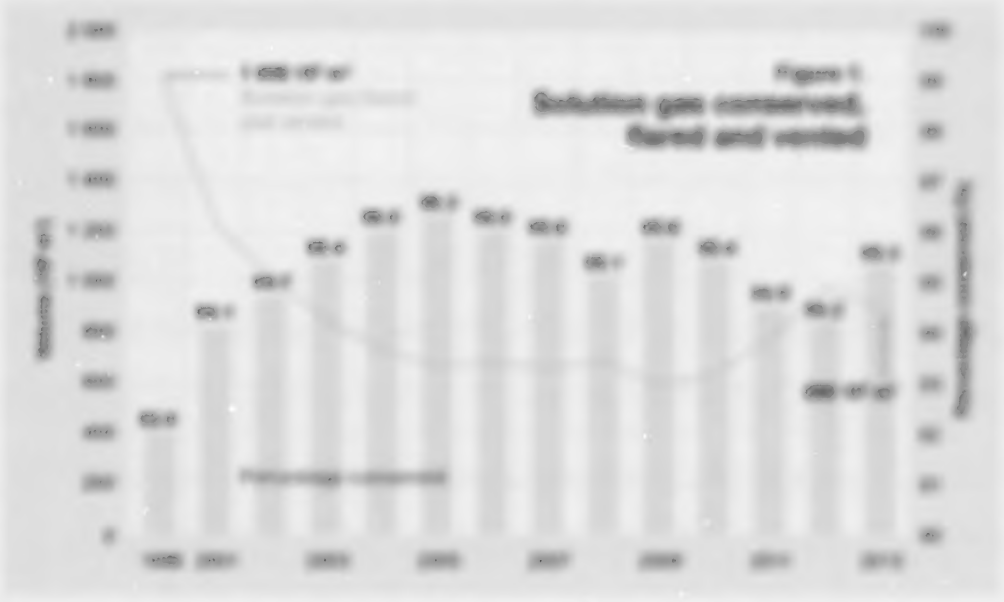

Figure 1.
Solution gas conserved, flared and vented

The combined volume of flared and vented solution gas decreased 4.1 per cent to 899 million cubic metres (10^6 m^3)[1] in 2013 from 938 10^6 m^3 in 2012.[1]

[1] Actual values have been rounded to the nearest 10^6 m^3.

6 Solution Gas Flaring and Venting Performance

The 2013 flared volumes were 47.5 per cent less than the 1996 flaring baseline of 2 148 million cubic metres (10^6 m^3) and 4.1 per cent less than the 2012 volumes (see figure 3). The 2013 vented volumes were 40.7 per cent less than the 2000 venting baseline of 764 10^6 m^3 and 4.1 per cent less than the 2012 volumes (see figure 3).

The years 1996 and 2000 were selected as the baseline (use) the solution gas flaring and venting, respectively, since data from these years were the most recent available in the ST60 Flaring and Venting Report Form.

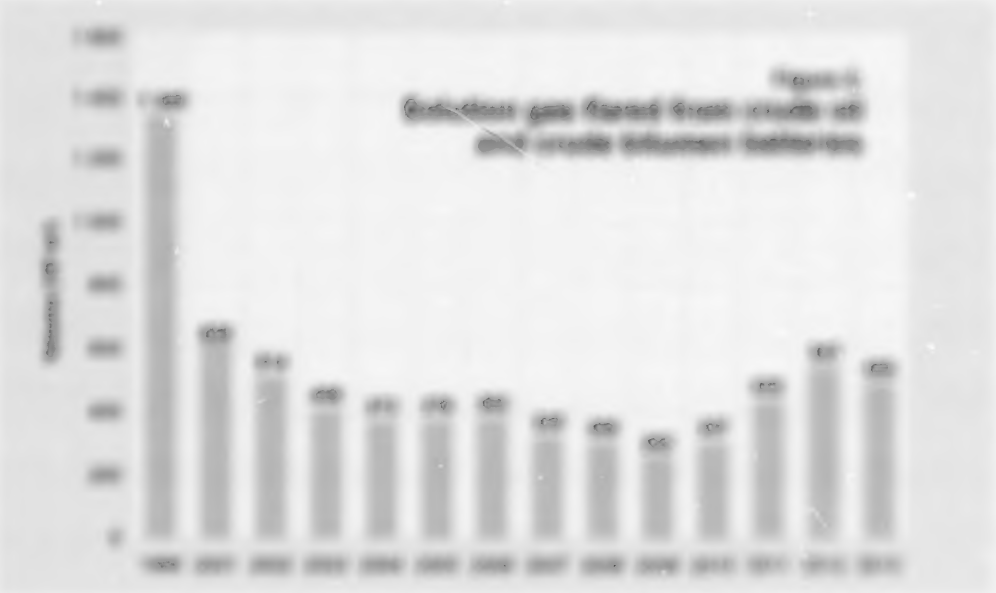

Figure 3.
Solution gas flared from crude oil and crude bitumen batteries

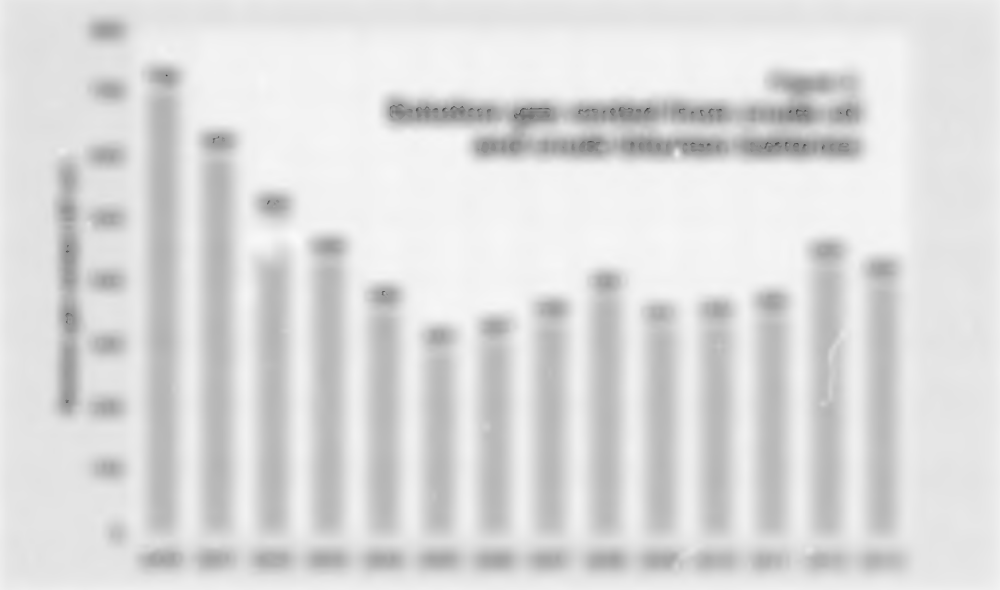

Figure 1:
Reduction gain, cumulative (Cases averted and avoid cases) (Many cases (Cases/Cases))

Cumulative Cases Averted (Cases)

0
100
200
300
400
500
600
700
800

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

Cumulative Cases Averted (Cases)

2000: 700
2001: 600
2002: 400
2003: 450
2004: 300
2005: 200
2006: 250
2007: 300
2008: 400
2009: 300
2010: 300
2011: 350
2012: 500
2013: 450

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Year	Crude bitumen batteries	Crude oil batteries	Gas batteries	Well testing	Gas plants[2]	Gas gathering systems[2]	Transmission lines	CBM[3] & shale gas	Total
2011	87	559	52	205	127	52	1	1	831
2012	71	477	28	183	134	40	1	1	561
2013	67	429	58	168	111	53	2	4	699
2013 vs. 2012	-5.6%	-10.1%	25.4%	8.0%	-16.9%	31.9%	81.8%	363.7%	-4.4%

[1] Due to rounding, some totals may not exactly match the sum of the source categories.

[2] The figures for gas plants and gas gathering systems include both flared and vented volumes for the years 2003 to 2006.

[3] CBM = coalbed methane.

In 2013, 70 per cent of the total volume flared from gas gathering systems came from 7 of the 5193 systems.

In 2013, of the 1094 gas plants reporting receipts, 395 gas plants flared a total of 111 10^3 m^3, a 16.9 per cent decrease from 2012. All gas plant subtypes contribute to this report; they include sweet gas, acid gas, acid gas injection, sulphur recovery, straddle, and fractionation. Table 3 shows the top 30 gas plants that flared in 2013 by volume.

Table 3. Top 30 flaring gas plants in 2013

Gas plant	Location	Operator name	Gas flared (10^3 m^3)
WA[redacted]	[redacted]	ConocoPhillips Canada Energy Partnership	8.1
WA[redacted]	[redacted]	Veresen Energy Infrastructure Inc.	4.9
WA[redacted]	[redacted]	Taylor Processing Inc.	4.7
WA[redacted]	[redacted]	Canadian Natural Resources Limited	4.4
WA[redacted]	[redacted]	ConocoPhillips Canada (BRC) Partnership	3.1
WA[redacted]	[redacted]	Kaybob Energy Ltd.	3.0
WA[redacted]	[redacted]	Trilogy Resources Ltd.	2.9
WA[redacted]	[redacted]	Kaybob Energy Ltd.	2.8
WA[redacted]	[redacted]	Spectra Energy Empress Management Inc.	2.6
WA[redacted]	[redacted]	Canadian Natural Resources Limited	2.6
WA[redacted]	[redacted]	ExxonMobil Canada	2.4
WA[redacted]	[redacted]	Canadian Natural Resources Limited	2.4
WA[redacted]	[redacted]	CQ Energy Canada Resources Partnership	2.3
WA[redacted]	[redacted]	Kaybob Energy Ltd.	2.2
WA[redacted]	[redacted]	Shell Canada Energy	2.1
WA[redacted]	[redacted]	ExxonMobil Canada	2.0
WA[redacted]	[redacted]	Pembina NGL Corporation	1.9
WA[redacted]	[redacted]	Canadian Natural Resources Limited	1.8
WA[redacted]	[redacted]	Kaybob Energy Ltd.	1.8
WA[redacted]	[redacted]	Kaybob Energy Ltd.	1.8

(continued)

Gas plant	Location	Operator name	Gas flared (10^3 m^3)
ABGP01198855	08-13-063-05W6M	Paramount Resources Ltd.	1.3
ABGP0001108	08-24-015-22W4M	ConocoPhillips Canada Energy Partnership	1.3
ABGP0001538	01-35-019-28W4M	MPP Ltd.	1.3
ABGP0001192	01-08-070-10W5M	Apache Canada Ltd.	1.2
ABGP0001134	02-04-021-04W5M	Pengrowth Energy Corporation	1.1
ABGP0001069	15-25-064-11W5M	Pengrowth Energy Corporation	1.0
ABGP0001892	04-09-075-07W6M	Encana Corporation	1.0
ABGP0004954	08-11-060-03W6M	Pembina Gas Services Ltd.	1.0
ABGP0001058	02-20-054-20W4M	Shell Canada Energy	1.0
ABGP01203446	10-07-067-24W5M	ARC Resources Ltd.	0.9
Total			**68.4**
% of total gas plant flaring			**61.6%**

Excluding well tests conducted in-line, the number of well tests that flared in 2013 was 1678, compared with a total of 1850 well tests in 2012. The total volume of gas flared for all well tests increased by 5.0 per cent to 198 10^3 m^3.

When considering all well tests conducted in 2013, the average gas volume flared per test was 109.8 10^3 m^3, compared with 102.3 10^3 m^3 per test in 2012, an increase of 7.3 per cent (see table 4). This can be attributed to an increase of 96 horizontal, multistage-fractured gas wells tested in 2013. It takes longer to recover load fluids and clean out wells in these operations, which results in greater flare volumes and flaring duration than with vertical wells.

Table 4. Average volume of gas flared per well test and number of wells drilled by type

Year	Volume (10^3 m^3)	Number of horizontal, multistage-fractured gas wells	Number of horizontal, multistage-fractured oil wells	Total number of wells drilled
2005	34.6	-	-	20179
2006	40.8	-	-	18878
2007	46.0	-	-	14723
2008	46.6	93	53	12914
2009	39.2	160	120	6392
2010	63.9	360	778	8946
2011	83.2	645	1645	9303
2012	102.3	530	1839	8143
2013	109.8	626	1612	7812

Directive 060 requires that operators seek alternatives to well test flaring. Operators are required to test in-line when it is both economically viable and safe to do so. Testing in-line can mean either connecting to an existing gas gathering system directly or laying a temporary surface pipeline to connect a well to a remote gas gathering system. In either method, the gas from the well test is conserved.

The data in table 5 represent the flaring from well tests conducted by 25 companies in 2013 and the average volume of gas flared per test.

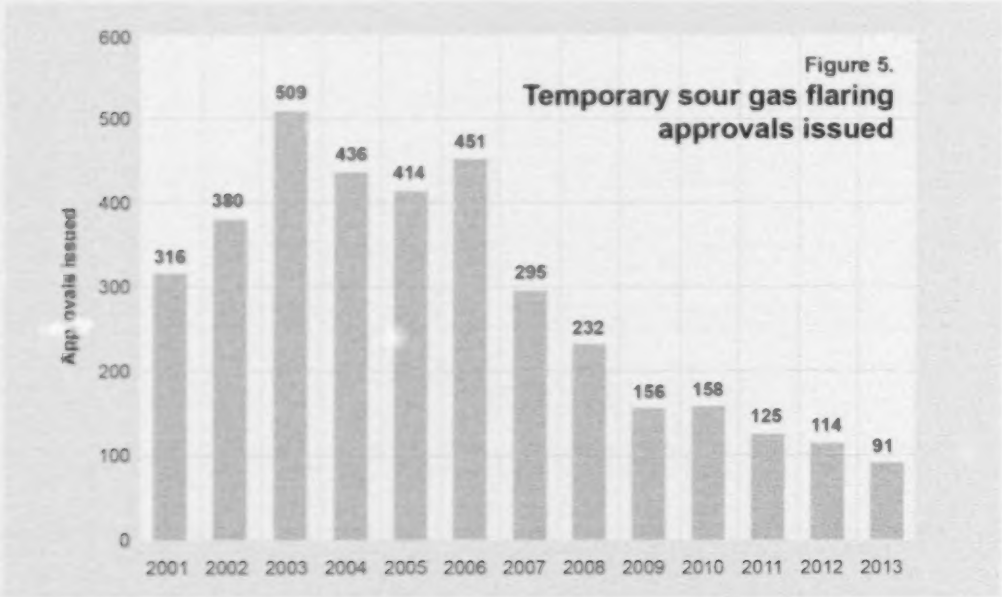
Table 5. Well test flaring, 2013; ranked by number of well tests conducted

Company	Well tests (#)	Gas flared (10^6 m^3)	Average gas flared per test (10^3 m^3)
Encana Corporation	531	13.5	25.5
Shell Canada Limited	124	5.5	44.2
Tourmaline Oil Corp.	107	15.8	147.4
Bellatrix Exploration Ltd.	86	21.8	254.0
Vermilion Energy Inc.	76	1.8	23.2
Pengrowth Energy Corporation	67	3.2	47.3
TAQA North Ltd.	65	9.0	138.2
Bonavista Energy Corporation	54	22.8	423.0
ARC Resources Ltd.	53	3.1	57.9
ConocoPhillips Canada Operations Ltd.	52	7.9	151.8
Cenovus Energy Inc.	33	0.8	24.7
Athabasca Oil Corporation	31	2.7	87.7
Birchcliff Energy Ltd.	31	3.9	124.2
Canadian Natural Resources Limited	31	2.6	84.1
Devon Canada Corporation	28	5.8	208.4
TORC Oil & Gas Ltd.	28	1.0	37.1
Advantage Oil & Gas Ltd.	21	12.2	582.6
Crocotta Energy Inc.	20	1.8	89.1
Exshaw Oil Corp.	20	2.2	108.7
Cequence Energy Ltd.	16	8.9	558.5
Husky Oil Operations Limited	15	0.7	43.7
Omers Energy Inc.	14	2.5	177.4
Santonia Energy Inc.	14	0.9	64.7
Direct Energy Marketing Limited	13	0.4	33.1
Seven Generations Energy Ltd.	13	11.1	851.8
Total	**1543**	**161.9**	
% of total well tests	**85.4%**	**81.6%**	

In cases of sour gas or sour oil well testing, if the gas to be flared contains greater than 5 per cent hydrogen sulphide (H_2S), a sour gas flaring approval is required. The temporary sour gas approval process involves a detailed review of air quality dispersion modelling and is conducted to ensure that Alberta Environment and Sustainable Resource Development's Alberta Ambient Air Quality Objectives (AAAQO) will not be exceeded. The application for a sour gas flaring approval may also include plans that document how any predicted exceedances of the AAAQO will be mitigated to ensure compliance

with the AAAQO. When the AER is satisfied that the AAAQO will be met and that levels of all other parameters, such as flared volumes and sulphur emissions, are justified and minimized, a temporary sour gas flaring approval may be issued.

In 2013, the AER issued 91 temporary sour gas flaring approvals, a decrease from the 114 issued in 2012 (see figure 5).



The reason for the decreases in sour gas flaring approvals since 2006 may be twofold. First, market conditions for natural gas have not been as favourable in recent years, which may have resulted in upstream oil and gas licensees rebalancing their capital and operating budgets.

Second, with the release of the revised *Directive 060* at the end of January 2007, a new allowance to flare small volumes of gas containing H_2S volumes in excess of 5 per cent without a sour gas flaring approval was introduced. With this new allowance, companies are still required to conduct dispersion modelling if the H_2S concentration of the gas to be flared is in excess of 1 per cent, and proper notification to the AER and public at least 24 hours in advance of flaring operations is still required.

5 Venting from All Upstream Oil and Gas Sources, 2000–2013

The most significant source of venting is crude bitumen batteries, where solution gas is vented from the production casing annulus at a large number of individual wells. In some instances, small volumes of solution gas are also vented from treaters and stock tanks at crude oil and crude bitumen batteries. Venting during well testing is primarily from shallow, sweet, low-deliverability gas wells, including coalbed methane (CBM) wells.

In *ST60B-2004: Upstream Petroleum Industry Flaring and Venting Report, 2003*, the AER made commitments to identify and set out a number of conservation measures aimed at reducing the volumes of solution gas vented from crude bitumen operations. As a result of industry implementing these measures, there was a net decrease in venting from crude bitumen batteries between 2004 and 2007. However, in 2008 this trend was reversed and there was an increase of 16.9 per cent compared with 2004. In 2013, there was a 12.3 per cent increase in venting from crude bitumen batteries compared with 2004.

In 2013, venting from crude bitumen batteries decreased by 17.6 per cent to 246 10^6 m^3 from 298 10^6 m^3 in 2012. Crude bitumen production grew by 6.2 10^6 m^3 to 65.4 10^6 m^3 in 2013, an increase of 10.4 per cent compared with 2012, with 226 more crude bitumen batteries operating.

Venting from crude oil batteries increased by 19.3 per cent to 158 10^6 m^3 from 132 10^6 m^3 in 2012. Crude oil production grew by 1.4 10^6 m^3 to 33.0 10^6 m^3 in 2013, an increase of 4.5 per cent compared with 2012, with 244 fewer crude oil batteries operating.

Figure 6 shows vented volumes broken down by source for 2000 to 2013. The data in table 6 were used to prepare figure 6. As indicated in the table, the total volume vented from all upstream oil and gas sources in 2013 was 480 10^6 m^3, a decrease of 4.3 per cent from 2012.

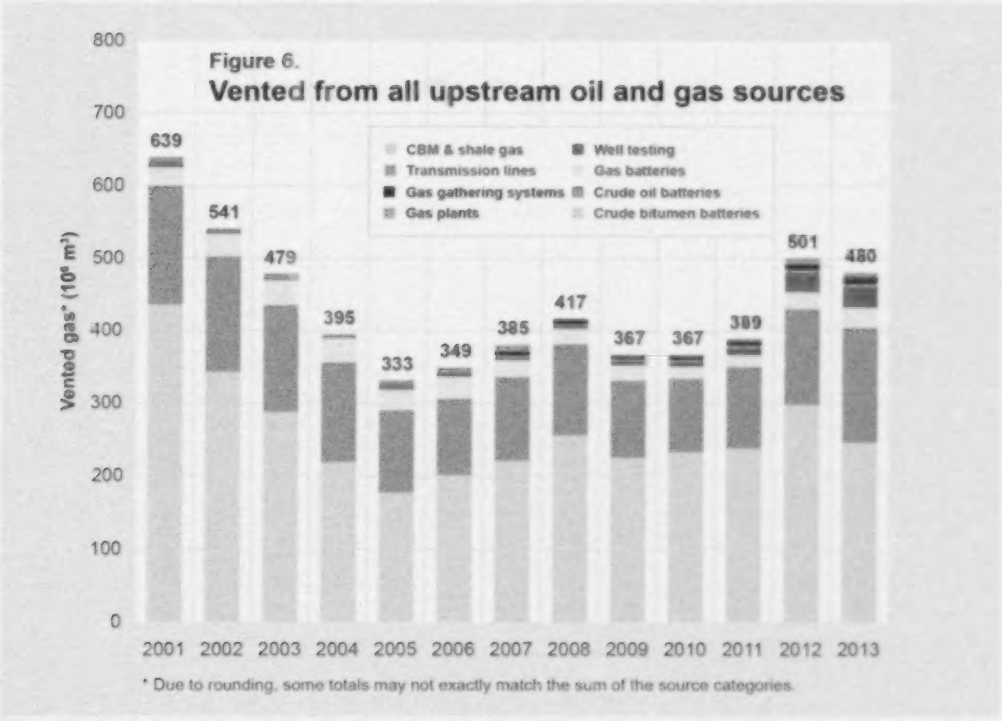


Table 6. Venting from upstream oil and gas sources (10^6 m^3)*

Year	Crude bitumen batteries	Crude oil batteries	Gas batteries	Well testing	Gas plants	Gas gathering systems	Transmission lines	CBM & shale gas	Total
2000	554	150	12	7	0	0	12	0	735
2001	436	164	24	7	0	0	8	0	639
2002	343	159	31	3	0	0	5	0	541
2003	288	147	34	2	0	0	8	0	479
2004	219	137	33	1	0	0	5	0	395
2005	177	113	28	6	0	0	8	0	333
2006	201	105	30	5	0	0	8	0	349
2007	221	115	23	4	3	5	8	3	385
2008	256	125	21	5	2	5	3	0	417
2009	225	106	21	6	3	3	3	0	367
2010	233	101	16	7	3	4	3	0	367
2011	238	112	16	10	4	5	4	0	389
2012	298	132	23	26	5	7	9	1	501
2013	**246**	**158**	**28**	**29**	**4**	**8**	**7**	**1**	**480**
2013 vs. 2012 change	-17.6%	19.3%	23.8%	10.8%	-28.1%	17.7%	-22.2%	-35.3%	-4.3%

* Due to rounding, some totals may not exactly match the sum of the source categories.

Table 6 shows an increase in 2013 compared with 2012 in volumes vented from crude oil batteries, gas batteries, and well testing. There were decreases in venting from crude bitumen batteries, gas plants, transmission lines, and CBM and shale gas wells in 2013.

Although the AER does not collect data on the emissions of greenhouse gases, it is concerned about the impact that these gases can have on the environment. Accordingly, *Directive 060* requires that vented gas that can sustain continuous combustion and that is uneconomic to conserve must be burned.

6 Provincial Solution Gas Flaring and Venting Maps

The following maps of the province depict solution gas flaring and venting data by township.

The maps do not display data derived from "paper batteries." Paper batteries are an administrative reporting entity used by production accountants to report production from multiple wells to a single reporting location. Including paper batteries in these maps could result in the incorrect representation of flaring and venting data in townships where the flaring or venting did not actually occur. Flaring and venting from paper batteries are accounted for in the ranking tables of this report.

9 Solution Gas Conservation Ranking of Operators for 2015

The AER has ranked companies based on volumes from operated crude oil and crude bitumen batteries or (1) flared plus vented solution gas and (2) vented solution gas. The tables in section 9 provide information on individual companies. The second column in the tables shows the percentage of solution gas conserved by an operator. The operator's performance can be compared with the provincial average of 91.1 per cent solution gas conservation.

In this analysis, all crude oil and crude bitumen batteries have been included except for batteries that had an experimental well reporting flood production as a result. The information on experimental wells remains confidential.

Note that it is possible for an operator to flare or vent a significant volume of solution gas due to the magnitude of the company's operations and still have a high percentage of gas conserved.

Companies are also ranked previous to last and within each AER field centre area. The following describes the fields that appear in the ranking tables:

COMPANY – Name of company operating crude oil and crude bitumen batteries

GAS CONS – Percentage of solution gas conserved

$$\frac{\text{(solution gas produced} - \text{flared gas} - \text{vented gas)}}{\text{(solution gas produced} - \text{fuel gas)}} \times 100$$

GAS CONS CHANGE – Percentage change in gas conservation from the previous year. If companies with N/A in this column are companies that did not report in 2013 due to mergers, name changes, acquisitions, etc.

GAS FL VRES – VENTED (1000 m³) – Solution gas flared plus vented from operated crude oil and crude bitumen batteries

GAS FL VRES – VENTED RANK – The company's ranking compared with other companies based on the operated volume of solution gas flared plus vented

GAS FL VRES (1000 m³) – Solution gas flared from operated crude oil and crude bitumen batteries

FL VRE RANK – The company's ranking compared with other companies based on the volume of solution gas flared

GAS VENTED (1000 m³) – Solution gas vented from operated crude oil and crude bitumen batteries

VENT RANK – The company's ranking compared with other companies based on the volume of solution gas vented

[illegible] (a) – Volume of oxide of lead in one oxide titration produced from saturated oxide of lead oxide titration balance.

[illegible] (a) – Volume of chlorine gas produced from saturated oxide of lead oxide titration balance.

[illegible] – The compass 1 walking compound cells after compass based on the volume of chlorine gas produced.

[illegible]

[illegible] [illegible] [illegible] [

[illegible][1]
[illegible]
[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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OPERATORS WITH THE LARGEST VOLUMES OF VENTED SOLUTION GAS IN 2013[1]
CRUDE OIL AND CRUDE BITUMEN BATTERIES FOR ALBERTA
RUN DATE: May 14, 2014

COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
Canadian Natural Resources Limited	89.2%	3.2%	193,502.3	1	-	297	174,492.7	1	16,463,696.5	1,784,196.1
Husky Oil Operations Limited	96.0%	0.4%	69,606.3	2	-	297	57,704.1	2	3,938,020.6	1,748,537.9
Devon Canada	92.4%	-0.6%	40,858.6	4	-	297	33,620.0	3	6,029,720.4	537,993.3
Twin Butte Energy Ltd.	70.3%	-5.9%	14,640.4	14	-	297	12,711.7	4	479,339.3	49,204.0
Penn West Petroleum Ltd.	95.9%	-0.2%	54,613.3	3	-	297	11,659.0	5	2,922,195.4	1,338,864.8
Gear Energy Ltd.	57.4%	-4.3%	10,779.9	19	-	297	10,777.8	6	212,793.0	25,283.3
Cenovus Energy Inc.	96.8%	-0.9%	12,517.6	16	-	297	10,272.6	7	3,059,651.7	391,680.5
Bonavista Energy Corporation	95.1%	-0.9%	18,279.7	10	-	297	9,748.3	8	600,511.9	373,996.6
Harvest Operations Corp.	89.5%	-1.8%	23,291.2	6	-	297	8,651.4	9	1,130,194.7	221,471.9
Perpetual Energy Operating Corp.	94.3%	2.8%	3,891.1	41	-	297	3,857.8	10	192,909.8	67,936.6
Lone Pine Resources Canada Ltd.	82.4%	-1.9%	3,304.6	44	-	297	3,053.7	11	146,322.2	18,780.3
Pengrowth Energy Corporation	97.9%	0.9%	16,043.2	12	-	297	2,983.5	12	1,695,249.8	778,544.9
Apache Canada Ltd.	96.4%	1.1%	15,314.6	13	-	297	2,638.2	13	781,771.2	427,043.7
Surge Energy Inc.	91.0%	-5.5%	16,133.7	11	-	297	2,616.3	14	343,867.9	179,437.5
Talisman Energy Inc.	88.9%	0.7%	4,792.4	34	-	297	2,333.4	15	613,591.2	42,992.3
Palliser Oil & Gas Corporation	9.9%	0.2%	2,211.8	57	-	297	2,208.8	16	41,052.9	2,455.6
Tamarack Acquisition Corp.	64.1%	N/A	3,422.6	43	-	297	2,094.8	17	61,686.3	9,521.4
Murphy Oil Company Ltd.	90.8%	22.4%	12,597.4	15	-	297	2,066.2	18	565,691.9	137,305.2
Bonterra Energy Corp.	96.7%	3.8%	6,633.7	28	-	297	1,871.5	19	405,318.1	202,207.2
Angle Energy Inc.	98.3%	0.0%	2,390.5	52	-	297	1,714.8	20	147,213.5	137,782.0
Whitecap Resources Inc.	98.4%	1.0%	5,739.4	29	-	297	1,708.9	21	503,746.0	348,675.5
TORC Oil & Gas Ltd.	79.2%	29.6%	12,048.8	18	-	297	1,536.4	22	180,767.1	58,011.1
TAQA North Ltd.	98.8%	0.4%	4,297.9	39	-	297	1,384.3	23	372,248.0	346,798.5
Glencoe Resources Ltd.	99.6%	0.1%	1,341.2	76	-	297	1,341.2	24	59,479.7	350,231.5
ConocoPhillips Canada (BRC) Partnership	99.3%	0.1%	2,239.0	56	-	297	1,336.7	25	249,201.9	330,018.9
SUBTOTAL			**550,491.2**		**-**		**364,384.1**		**41,196,241.0**	**9,908,970.6**
% OF PROVINCIAL TOTAL			**61.5%**		**0.0%**		**90.5%**		**48.2%**	**52.3%**

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

PROVINCIAL RANKING OF OPERATORS – 2013 FLARED AND VENTED VOLUMES[1]
CRUDE OIL AND CRUDE BITUMEN BATTERIES FOR ALBERTA
RUN DATE: May 14, 2014

COMPANY	GAS CODE	GAS CHANGE	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	GAS PROD (1000 m^3)
Canadian Natural Resources Limited	89.2%	3.2%	103,502.3	1	16,029.6	5	174,462.7	1	16,463,098.0	1,764,196.1
Husky Oil Operations Limited	95.0%	0.4%	69,606.3	2	11,902.2	11	57,704.1	2	3,638,230.6	1,748,537.9
Penn West Petroleum Ltd.	95.8%	-0.2%	54,613.3	3	42,954.3	1	11,659.0	5	2,922,195.4	1,338,864.8
Devon Canada	92.4%	-0.6%	40,858.6	4	7,238.6	22	33,620.0	3	6,029,725.4	537,983.3
Lightstream Resources Ltd.	93.8%	N/A	23,474.9	5	22,468.4	2	1,006.5	32	764,364.7	277,218.2
Harvest Operations Corp.	92.5%	-1.9%	23,297.2	6	14,639.8	7	8,657.4	8	1,192,194.7	221,471.8
Baytex Energy Ltd.	82.2%	-6.0%	22,101.9	7	21,955.3	3	146.6	45	1,351,408.5	124,421.7
Crescent Point Energy Corp.	91.4%	-8.0%	21,834.6	8	21,163.5	4	671.1	52	325,495.2	116,191.6
Arcan Resources Ltd.	41.5%	10.1%	18,668.5	9	17,641.8	6	1,026.7	31	238,470.6	31,932.3
Bonavista Energy Corporation	95.1%	-2.9%	16,274.7	10	8,531.4	16	8,746.3	9	466,511.8	173,946.6
Surge Energy Inc.	91.2%	-3.5%	16,132.7	11	13,017.4	8	3,215.2	14	343,287.9	175,437.5
Pengrowth Energy Corporation	97.9%	0.8%	15,343.2	12	13,359.7	9	1,983.5	13	1,645,248.6	178,744.9
Apache Canada Ltd.	95.4%	1.1%	15,214.6	13	12,675.4	10	2,539.2	15	781,771.2	427,340.7
Twin Butte Energy Ltd.	72.3%	-5.9%	14,640.4	14	1,926.7	50	12,714.7	4	478,338.5	48,204.9
Murphy Oil Company Ltd.	90.9%	22.4%	13,797.4	15	10,531.2	13	3,266.2	16	565,491.8	137,495.2
Cenovus Energy Inc.	96.8%	-2.3%	12,317.8	16	2,245.0	44	10,072.8	7	3,954,461.7	941,980.9
Crew Energy Inc.	68.2%	-4.8%	12,038.4	17	11,802.5	12	235.9	63	328,648.4	102,128.0
TORC Oil & Gas Ltd.	79.2%	29.6%	12,038.8	18	10,512.4	14	1,526.4	22	160,787.1	56,011.1
Gear Energy Ltd.	97.4%	-4.3%	10,779.9	19	2.1	205	10,777.9	6	212,765.0	25,260.9
Encana Corporation	97.1%	3.8%	10,455.2	20	10,108.8	15	347.3	71	464,243.4	369,975.6
ARC Resources Ltd.	98.2%	0.4%	10,284.4	21	8,211.8	17	856.6	34	1,247,644.0	972,365.8
Deethree Exploration Ltd.	80.3%	1.8%	9,640.3	22	9,595.4	16	47.9	101	585,886.1	86,911.9
Canadian International Oil Operating Corp.	63.5%	2.2%	8,439.0	23	8,405.3	19	33.7	102	45,369.4	51,166.8
TriOil Resources Ltd.	95.4%	40.3%	8,110.2	24	8,110.2	20	-	270	120,972.4	55,809.7
Bellatrix Exploration Ltd.	98.4%	1.9%	7,982.9	25	6,809.1	23	173.8	48	198,938.2	477,177.9
Spyglass Resources Corp.	82.4%	N/A	7,416.5	26	7,327.2	21	89.3	113	234,095.8	42,139.8
Cenovus FCCL Ltd.	95.6%	3.2%	6,960.6	27	6,960.6	24	0.1	241	11,992,950.6	152,971.7
Bonterra Energy Corp.	95.7%	3.8%	1,633.7	28	4,762.2	26	1,871.5	19	495,316.1	252,337.2
Whitecap Resources Inc.	98.4%	1.3%	5,136.4	29	4,030.6	31	1,705.8	21	503,748.0	348,675.5
Connacher Oil & Gas Ltd.	0.0%	0.0%	5,031.2	30	5,031.2	28	-	273	10,540.2	5,031.2
Manuel Energy Inc.	97.1%	-3.7%	5,108.7	31	4,462.9	29	716.1	40	237,396.0	36,946.7
Long Run Exploration Ltd.	98.2%	1.1%	5,063.5	32	3,809.9	34	1,249.0	26	661,859.6	394,438.6
Canal Hill Energy Ltd.	92.1%	40.4%	4,853.0	33	3,679.6	35	1,173.4	28	334,737.3	91,358.9
Talisman Energy Inc.	98.8%	0.7%	4,762.4	34	2,468.6	42	2,293.4	15	913,591.2	40,963.3
Tribute Resources Ltd.	98.6%	1.1%	4,760.8	35	4,478.7	27	282.1	61	417,935.5	345,756.4

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

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COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED BOE/D	GAS FLARED (1000 m^3)	FLARE BOE/D	GAS VENTED (1000 m^3)	VENT BOE/D	OIL PROD (m^3)	SOLN GAS PROD (1000 m^3)
Tournaline Exploration Ltd.	98.5%	0.5%	7541.0	188	5852.4	92	1171.6	69	32,737.7	66,679.3
CNOOC Alberta Ltd.	0.0%	N/A	6553.4	167	6553.4	65	-	270	8,461.4	6553.4
Blackpearl Resources Inc.	97.4%	-0.3%	6538.9	169	1163.5	163	4375.3	51	271,618.9	24,308.2
Tourmaline Oil Corp.	94.5%	94.5%	6511.0	169	6511.0	69	-	270	7,091.4	12,688.9
Sanjel Energy Inc.	66.3%	N/A	6467.9	149	3749.6	127	2771.2	69	13,411.0	4,698.0
Five Mountain Exploration Ltd.	21.0%	N/A	6391.3	161	6180.5	91	0.8	262	695.1	798.6
Shoreline Energy Corp.	89.1%	3.2%	6271.9	162	5555.9	97	72.0	128	8,320.5	5,736.4
Canadian Oil & Gas International Inc.	99.8%	N/A	6253.4	163	4653.4	107	1463.0	94	19,113.7	4,038.1
Paramount Resources Ltd.	97.7%	-0.6%	5992.9	116	5358.2	95	41.6	153	27,931.9	25,568.2
Vista Energy Ltd.	98.3%	-2.8%	5985.3	116	4850.2	105	135.1	107	8,474.3	14,538.2
Wolf Coulee Resources Inc.	99.4%	-0.1%	5980.2	116	5286.4	100	83.8	120	18,340.1	12,747.6
Athlon Energy Corporation	59.2%	N/A	5941.1	167	5716.5	94	8.6	225	5,631.0	1,424.1
Bankers Energy Inc.	98.6%	-0.7%	5777.3	116	5176.6	93	0.7	263	48,111.2	16,595.6
Legacy Oil + Gas Inc.	98.9%	3.5%	5773.0	116	5196.2	101	65.8	136	169,136.3	52,179.2
Shell Canada Energy	99.7%	2.3%	5594.4	109	4271.9	111	1322.5	95	1,236,939.7	119,173.3
Lindbergh Hybrid Oil & Gas Corp.	0.0%	0.0%	5491.2	121	5491.2	98	-	270	331.0	5491.2
Canterra Oil Inc.	85.3%	71.4%	5291.5	122	5117.6	59	146.1	358	5,745.5	3,623.1
Tucco Petroleum Ltd.	99.5%	-12.1%	5118.2	123	-	207	5118.2	49	3,331.7	1,346.3
Canadian Oil And Gas Limited	95.0%	2.5%	5031.7	139	5031.7	103	-	270	680,754.3	9,994.4
Second Wave Petroleum Inc.	98.6%	10.3%	5011.1	126	3713.2	128	1130.3	98	46,157.8	35,119.3
Chinook Energy Ltd.	96.6%	3.3%	4930.3	139	4930.3	104	-	270	13,074.7	14,259.5
Sino-Western Petroleum, Inc.	94.8%	N/A	4875.3	127	4875.3	105	-	270	2,616.3	728.9
Questfire Energy Corp.	96.8%	96.8%	4831.8	139	1197.3	103	2564.8	72	9,401.5	14,551.6
Tiaga Energy Ltd.	99.2%	0.4%	4823.9	129	4823.9	108	-	270	16,224.2	57,361.9
Lyn-Tri-X Gas Inc.	95.4%	2.5%	4791.3	139	4535.1	113	25.5	169	40,693.5	9,737.4
Talisman North Resources Ltd.	33.5%	-6.2%	4448.7	131	-	207	4448.7	53	1,651.6	575.3
Progress Energy Canada Ltd.	99.4%	-3.5%	4430.3	132	1467.9	176	2591.1	65	86,384.1	69,036.2
Sequence Energy Ltd.	96.3%	-5.3%	4395.7	133	3381.4	115	38.3	157	7,172.4	10,946.7
Renaissance Energy Corp.	96.3%	-5.4%	4395.6	139	3691.9	129	67.8	132	48,274.7	61,176.2
Krystion Petroleum Corp.	45.1%	54.4%	4370.9	139	4231.3	113	3.3	240	6,436.4	778.2
Oil Energy Canada Resources Partnership	99.4%	N/A	4113.6	139	4113.6	114	-	270	171,294.9	67,051.9
Obsidian Energy Inc.	98.7%	-2.6%	4113.9	137	4113.9	115	-	270	26,203.2	9,592.5
Petrocapita GP I Ltd.	63.0%	63.0%	4112.9	139	4112.9	116	-	270	15,643.5	1,333.1
Kinga Petroleum Corporation	98.0%	68.8%	4039.7	139	4039.7	117	-	270	51,468.8	8,135.9
Sure Energy Inc.	98.9%	4.7%	4039.3	149	3238.7	137	73.3	130	14,472.4	5,155.6

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
Conserve Oil 6th Corporation	95.5%	5.4%	407.1	**141**	391.7	123	15.4	203	16,577.7	9,110.1
Trixon Oil Operations Ltd.	97.4%	3.7%	400.3	**142**	248.9	149	151.4	92	73,887.1	15,577.4
Muirfield Resources Ltd.	74.3%	-5.2%	397.6	**143**	368.0	130	29.6	169	8,980.7	1,548.8
Perpetual Energy Inc.	11.2%	-85.6%	395.7	**144**	395.7	120	-	270	414.5	445.6
Conserve Oil & Gas No. II Corporation	91.2%	-1.6%	395.2	**145**	395.2	121	-	270	29,291.8	4,499.0
Japan Canada Oil Sands Limited	92.0%	-2.1%	392.6	**146**	392.6	122	-	270	344,756.8	4,904.0
Inception Exploration Ltd.	95.1%	-4.9%	388.4	**147**	388.4	125	-	270	3,484.5	7,989.5
Hemisphere Energy Corporation	80.2%	43.6%	380.4	**148**	309.6	140	70.8	129	17,738.8	1,919.3
Nordegg Resources Inc.	97.5%	0.2%	374.8	**149**	374.8	126	-	270	19,250.2	14,795.4
Laricina Energy Ltd.	0.0%	N/A	364.7	**150**	364.7	131	-	270	350.9	-
Petro Viking Management Corp.	52.7%	10.7%	360.0	**151**	360.0	132	-	270	1,781.5	761.1
Novus Energy Inc.	86.5%	-0.9%	354.6	**152**	354.6	133	-	270	3,928.7	2,624.6
Barnwell of Canada, Limited	55.7%	-13.8%	354.4	**153**	330.4	139	24.0	182	6,859.5	800.6
IG Exploration Inc.	91.8%	4.4%	352.4	**154**	352.4	134	-	270	4,140.8	4,275.2
Petrus Resources Ltd.	98.3%	1.2%	344.8	**155**	343.2	136	1.6	255	43,921.6	19,867.9
Kaiser Exploration Ltd.	97.1%	-1.2%	336.8	**156**	34.9	244	301.9	63	13,152.2	11,597.2
Crimson Oil & Gas Ltd.	21.0%	N/A	335.8	**157**	50.0	231	285.8	66	6,586.7	425.3
Birchill Exploration Corp.	93.7%	93.7%	331.4	**158**	331.4	138	-	270	3,810.0	5,283.9
Marquee Energy Ltd.	99.1%	-0.8%	329.7	**159**	179.4	165	150.3	93	69,602.8	36,464.8
Chinook Energy Partnership	97.9%	-0.9%	307.9	**160**	189.4	162	118.5	100	7,605.5	14,376.7
Ashton Oil & Gas Ltd.	95.8%	-0.9%	290.3	**161**	290.3	143	-	270	27,368.4	6,941.9
Fairwest Energy Corporation	75.8%	-10.6%	288.8	**162**	260.9	146	27.9	174	5,067.2	1,194.7
Rock Energy Inc.	94.2%	0.8%	283.5	**163**	42.1	239	241.4	76	22,008.3	4,916.1
Coda Petroleum Inc.	87.6%	87.6%	277.2	**164**	268.2	144	9.0	217	3,626.3	2,233.9
Sonde Resources Corp.	97.9%	3.4%	275.0	**165**	204.2	156	70.8	129	21,233.3	12,820.9
Shorthorn Exploration Ltd.	93.8%	4.4%	266.9	**166**	261.6	145	5.3	230	5,315.2	4,292.8
ConocoPhillips Canada Resources Corp.	99.1%	0.0%	264.9	**167**	198.8	157	66.1	135	1,518,493.2	30,929.5
Taku Gas Limited	42.2%	-0.2%	254.5	**168**	25.9	255	228.6	78	6,048.9	439.9
Magnum Energy Inc.	73.1%	-14.1%	248.6	**169**	232.9	151	15.7	200	5,785.1	923.5
Petromin Resources Ltd.	58.2%	52.5%	235.7	**170**	3.2	284	232.5	77	3,165.9	564.4
Barrick Energy Inc.	99.4%	0.4%	234.4	**171**	168.2	169	66.2	134	153,745.7	38,447.6
Terra Energy Corp.	85.8%	-8.1%	234.3	**172**	218.7	154	15.6	201	11,324.9	1,651.0
South Bay Resources Canada, ULC	19.7%	5.8%	232.3	**173**	232.3	152	-	270	2,781.1	289.4
Bumper Development Corporation Ltd.	96.9%	-1.1%	229.2	**174**	144.0	178	85.2	119	5,149.7	7,451.3
Advantage Oil & Gas Ltd.	97.1%	-0.8%	221.9	**175**	36.9	241	185.0	86	7,573.0	7,721.4

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
West Valley Energy Corp.	37.0%	N/A	219.5	**176**	219.4	153	0.1	269	462.6	348.3
97837 Resources Ltd.	29.4%	0.8%	218.1	**177**	216.9	155	1.2	259	843.7	308.8
Midlake Oil & Gas Limited	24.7%	-7.4%	209.3	**178**	-	297	209.3	81	1,750.7	277.9
Coastal Resources Limited	88.8%	-0.9%	206.5	**179**	173.8	167	32.7	163	12,404.8	1,839.6
Home Quarter Resources Ltd.	78.1%	-2.4%	202.3	**180**	177.6	166	24.7	180	1,219.4	922.8
Statoil Canada Ltd.	95.5%	-3.5%	198.4	**181**	198.4	158	-	270	732,601.5	4,449.1
Copper Island Resources Ltd.	93.5%	-5.8%	195.8	**182**	4.8	279	191.0	84	5,914.5	3,024.6
Arrow Point Oil & Gas Ltd.	95.1%	-3.6%	193.5	**183**	100.4	197	93.1	116	8,157.7	3,906.1
Conserve Oil Corporation	95.1%	0.9%	193.4	**184**	193.4	160	-	270	11,781.8	3,948.9
Onstad Energy Corp.	12.2%	-26.2%	192.1	**185**	192.1	161	-	270	2,853.8	218.8
Butte Energy Inc.	0.0%	0.0%	189.2	**186**	-	297	189.2	85	75.0	189.2
Hard Rock Resources Ltd.	46.7%	-8.6%	185.4	**187**	158.2	172	27.2	176	2,366.9	347.8
Sydco Energy Inc.	84.9%	-0.7%	182.0	**188**	182.0	164	-	270	4,371.7	1,205.3
Sojourn Energy Inc.	0.0%	-12.5%	180.2	**189**	-	297	180.2	87	7,005.3	180.2
Insignia Energy Ltd.	98.4%	5.7%	179.9	**190**	51.7	229	128.2	97	15,706.0	10,991.4
Sekur Energy Management Corp.	54.5%	26.8%	178.9	**191**	64.4	216	114.5	102	5,497.4	392.9
Croverro Energy Ltd.	0.0%	0.0%	174.3	**192**	-	297	174.3	88	6,792.4	174.3
Spartan Oil Corp.	98.0%	0.6%	167.7	**193**	54.3	226	113.4	104	34,879.4	8,282.0
Exall Energy Corporation	97.5%	2.0%	167.5	**194**	74.2	209	93.3	114	88,728.5	6,795.0
Freehold Royalties Ltd.	0.0%	N/A	166.7	**195**	-	297	166.7	90	388.6	166.7
Alberta Petroleum Energy Limited	7.6%	0.2%	162.6	**196**	116.8	188	45.8	152	3,428.8	176.0
Westbrick Energy Ltd.	97.2%	-2.8%	161.7	**197**	161.7	170	-	270	3,695.0	5,848.0
Benjaka Exploration Inc.	35.3%	16.8%	159.1	**198**	159.1	171	-	270	362.9	245.7
Canstone Energy Ltd.	87.8%	87.8%	152.8	**199**	150.3	175	2.5	247	5,430.1	1,251.6
White Ram Resources Ltd.	44.9%	10.0%	152.2	**200**	-	297	152.2	91	824.4	276.0
Anterra Energy Inc.	97.5%	3.3%	151.7	**201**	102.1	194	49.6	149	9,059.2	6,114.9
Relentless Resources Ltd.	95.2%	-4.8%	151.0	**202**	151.0	173	-	270	1,077.8	3,134.7
Long Term Asset Management Inc.	61.5%	N/A	150.9	**203**	150.8	174	0.1	269	1,191.3	392.3
Clampett Energy Ltd.	29.1%	-64.1%	148.2	**204**	139.1	180	9.1	216	1,739.3	209.1
Birchill Exploration Limited Partnership	98.6%	-1.4%	146.7	**205**	146.7	177	-	270	11,162.0	10,252.5
Conserve Oil 7th Corporation	95.1%	N/A	146.6	**206**	91.1	202	55.5	145	9,639.1	2,999.6
Ribbon Creek Resources Inc.	95.6%	-3.2%	144.4	**207**	120.4	187	24.0	182	3,660.7	3,281.8
Hermes Financial Inc.	0.0%	0.0%	142.5	**208**	142.5	179	-	270	1,509.5	142.5
Fogo Energy Corp.	16.4%	-8.8%	140.9	**209**	128.1	184	12.8	210	1,413.9	168.6
Summerland Energy Inc.	96.7%	-0.4%	136.4	**210**	122.5	186	13.9	209	10,146.7	4,105.1

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COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	SOLUTION GAS PROD (1000 m³)
Alexander Oilfield Services Ltd.	74.4%	2.0%	132.9	211	132.9	181	-	270	1,280.2	519.4
Nexen Energy ULC	0.0%	N/A	150.8	212	150.8	182	-	270	820.4	150.8
Sitka Exploration Ltd.	0.0%	N/A	129.0	213	129.0	183	-	270	68.6	129.0
Navarone Energy Corporation	71.0%	-14.5%	127.2	214	127.2	185	-	270	625.4	437.9
Iberdrola Canada Energy Services Ltd.	99.8%	0.2%	125.9	215	-	297	125.9	98	4,501.0	96,623.1
Questerre Energy Corporation	0.0%	0.0%	120.2	216	-	297	120.2	99	1,214.5	120.2
Firenze Energy Ltd.	94.6%	-0.6%	119.9	217	107.4	191	12.5	212	22,147.9	2,198.0
Bridgeoil Corporation	0.0%	N/A	116.1	218	-	297	116.1	101	682.9	116.1
Regco Petroleums Ltd.	0.0%	-3.3%	112.8	219	112.8	189	-	270	1,432.4	112.8
385417 Alberta Ltd.	84.7%	-13.5%	111.5	220	1.4	293	110.1	105	2,624.6	727.5
Polar Star Canadian Oil And Gas, Inc.	98.2%	-1.1%	110.6	221	110.6	190	-	270	23,244.7	6,142.1
Bashaw Oil Ltd.	92.9%	-4.8%	109.0	222	-	297	109.0	106	27,235.4	1,531.0
Terrex Energy Inc.	96.9%	3.3%	106.3	223	99.6	198	6.7	224	8,195.7	3,480.4
Westdrum Energy Ltd.	86.6%	10.5%	104.8	224	53.9	227	50.9	146	1,775.6	783.7
Suncor Energy E&p Partnership	99.1%	N/A	104.5	225	104.5	192	-	270	26,483.7	11,724.1
Seistech Energy Inc.	4.3%	-13.3%	104.4	226	104.4	193	-	270	339.9	109.1
Keyera Energy Ltd.	0.0%	-85.2%	101.8	227	101.8	195	-	270	-	-
Venturion Oil Limited	94.8%	N/A	101.1	228	101.1	196	-	270	31,371.1	1,940.7
Canadian Coyote Energy Ltd.	97.2%	-2.8%	100.5	229	94.1	200	6.4	226	9,417.9	3,646.4
Thoroughbred Energy Ltd.	62.2%	-35.6%	99.2	230	-	297	99.2	108	3,068.2	262.2
Owl River Resources Ltd.	74.9%	-18.8%	97.9	231	96.6	199	1.3	258	437.1	390.2
Dark Energy Ltd.	69.2%	-2.0%	93.9	232	-	297	93.9	113	5,637.3	304.8
Scollard Energy Inc.	99.6%	0.0%	93.8	233	36.1	243	1.7	142	14,784.2	25,735.4
RMP Energy Inc.	99.9%	-0.1%	93.1	234	92.8	201	0.3	267	205,270.2	85,113.9
Ridal Resource Ltd.	0.0%	0.0%	91.1	235	-	297	91.1	117	1,780.3	91.1
Ember Resources Inc.	92.5%	-7.5%	91.0	236	9.3	268	81.7	122	3,595.2	1,215.0
Dewpoint Resources Ltd.	0.0%	0.0%	90.4	237	90.4	203	-	270	609.3	90.4
Joli Fou Petroleums Ltd.	22.7%	4.4%	89.1	238	68.8	212	20.3	188	2,141.5	115.2
Zeal Energy Inc.	58.5%	-10.4%	89.0	239	-	297	89.0	118	586.1	214.4
Tallgrass Energy Corp.	97.4%	9.2%	86.2	240	68.1	213	18.1	196	12,032.8	3,330.7
Capio Exploration Ltd.	99.8%	0.0%	84.8	241	84.7	204	0.1	269	89,820.1	53,489.9
Windtalker Energy Corp.	93.5%	0.7%	83.3	242	-	297	83.3	121	69,760.6	1,282.9
Direct Energy Marketing Limited	99.8%	0.3%	82.7	243	60.8	222	21.9	186	42,691.5	41,453.5
Predator Oil Ltd.	95.7%	2.7%	82.7	243	64.0	218	18.7	193	6,823.0	1,932.7
Path Resources Ltd.	81.6%	27.0%	82.5	244	76.4	207	6.1	228	1,590.2	447.6

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Ascension Oil And Gas Ltd.	35.4%	N/A	91.0	268	91.0	204	–	275	1,268.6	191.9
Cenrick Petroleum Ltd.	62.3%	1.4%	80.9	246	–	297	80.9	125	1,210.1	459.6
Clearbrook Resources Inc.	83.5%	16.4%	80.9	247	80.9	204	–	275	4,858.7	481.1
RCN Resources Ltd.	93.4%	4.8%	78.2	243	74.1	210	0.1	224	1,248.6	1,255.1
OnGen Oil (2003) Inc.	0.0%	0.0%	76.3	235	76.3	208	–	275	185.3	76.3
Sanford Petroleum Ltd.	0.0%	0.0%	74.3	229	–	297	74.3	126	2,857.9	74.3
Whitehall Energy Ltd.	74.3%	36.3%	73.5	251	–	297	73.5	128	4,210.6	285.9
Sun Century Petroleum Corporation	70.8%	-26.3%	73.2	252	64.2	217	8.0	217	3,168.6	350.3
Lockwood Resources Ltd.	0.0%	-74.9%	72.4	250	72.4	211	–	275	1,448.7	72.4
Dark Warrior Resources Ltd.	0.0%	0.0%	72.1	248	–	297	72.1	127	2,233.8	72.1
Indra Oil & Gas Ltd.	0.0%	0.0%	71.3	246	61.0	221	10.0	214	1,174.1	71.3
Celtic Exploration Ltd.	88.6%	8.3%	69.6	239	63.4	230	16.2	191	15,752.8	4,975.0
Regent Resources Ltd.	86.7%	2.4%	68.9	237	64.2	217	4.7	224	16,597.3	5,308.8
TimberRock Energy Corp.	91.9%	-16.7%	68.1	235	56.1	214	3.5	252	665.4	176.3
Ener-T Corporation	91.3%	93.9%	67.9	233	11.2	263	56.2	140	6,997.8	714.8
Kaltetic Energy Corp.	12.0%	-7.3%	66.9	230	59.0	215	2.3	248	2,498.9	76.0
New North Resources Ltd.	90.2%	0.3%	66.7	251	–	297	66.7	133	1,488.0	676.0
CVS Energy Canada	88.1%	N/A	65.3	252	31.3	248	34.0	181	16,332.0	6,853.9
Silver Blaze Energy Ltd.	74.5%	-6.7%	65.2	253	–	297	65.2	137	432.5	295.9
Rubicon Petroleums Limited	0.0%	0.0%	64.1	254	48.8	215	15.3	253	2,564.0	96.3
Standard Exploration Ltd.	46.9%	8.7%	63.8	255	61.8	216	2.0	252	2,972.0	127.7
Transaction Oil & Gas Ventures Inc.	0.0%	0.0%	62.9	255	–	297	62.9	136	748.0	62.9
Border Acquisition Corporation	88.6%	-2.7%	62.2	257	61.8	219	0.4	264	1,238.8	1,251.5
Enhance Energy Inc.	88.1%	N/A	61.8	255	61.4	226	0.3	248	16,408.0	6,946.3
Cowboy Exploration Ltd.	0.0%	0.0%	60.1	256	60.1	223	–	275	57.0	60.1
Shangali Resources Ltd.	79.4%	2.2%	59.2	276	–	297	59.2	140	1,539.0	286.2
Border Petroleum Limited	0.0%	N/A	55.6	271	–	297	55.6	144	1,334.6	55.6
HEO Exploration Inc.	79.8%	16.3%	55.2	272	49.0	232	6.2	227	2,558.5	274.7
Newalta Corporation	0.0%	0.0%	55.1	272	55.1	224	–	275	477.8	55.1
Comserv Resources Ltd.	45.9%	3.3%	54.9	274	36.4	247	18.1	198	999.0	124.8
Sheva Energy Inc.	93.3%	N/A	54.4	275	54.4	225	–	275	6,746.8	91.0
Grandview Exploration Inc.	70.3%	-29.7%	54.3	276	54.3	226	–	275	6,132.0	180.1
KLZ Energy Ltd.	0.0%	0.0%	52.8	277	52.8	228	–	275	255.1	52.8
Penida Resources Inc.	75.6%	23.7%	52.7	278	44.2	237	8.6	224	7,956.7	210.8
Wetz Inc.	95.8%	4.3%	50.8	279	–	297	50.8	147	498.0	1,042.0

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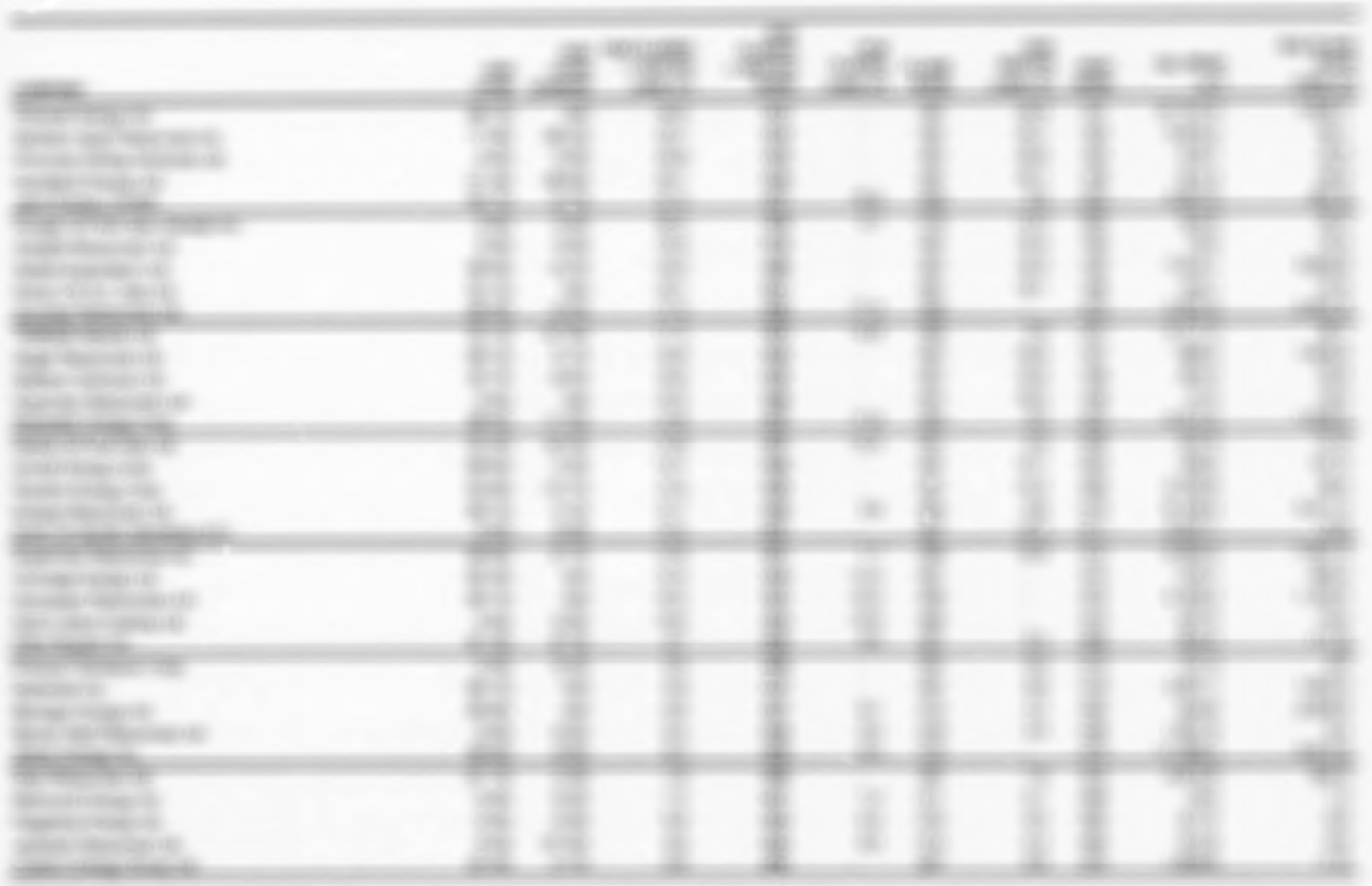

Company	GAS CONS	GAS CONS (1000 m³)	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	SOL'N GAS PROD (1000 m³)
Kwiddam Oil & Gas Inc.	66.2%	-21.0%	9.7	269	9.7	273	-	273	4,272.0	19.6
Sunrise Resources Ltd.	0.0%	0.0%	9.4	270	9.7	254	9.7	229	1,338.7	9.4
Jest Energy Ltd.	92.0%	N/A	9.4	271	9.5	263	1.9	253	654.8	27.0
Wildcat Rentals Ltd.	0.0%	-89.7%	9.3	272	-	297	9.3	230	1,568.9	9.3
Zoey Energy Ltd.	0.0%	0.0%	9.2	273	9.2	277	-	273	234.5	9.2
MI Energy Ltd.	98.8%	-1.1%	9.0	274	9.0	277	-	273	495.9	467.1
ESSEX Alberta Ltd.	0.0%	0.0%	8.9	275	-	297	8.9	232	954.0	8.9
Pretty Petroleum Inc.	97.9%	-2.9%	8.8	276	-	297	8.8	235	596.8	34.9
Sahara Energy Ltd.	0.0%	0.0%	8.2	277	-	297	8.2	236	565.9	8.2
Duplex Exploration and Production Ltd.	56.1%	N/A	8.1	278	8.1	261	-	273	790.0	466.7
Wrangler Well Energy Corp.	99.8%	0.0%	5.8	279	2.3	297	1.3	259	5,643.9	4,791.2
Wildhorse Oil Corporation	73.7%	N/A	3.5	280	-	297	3.5	237	73.4	13.3
Nolan Exploration Ltd.	0.0%	0.0%	3.3	281	-	297	3.3	239	102.6	3.3
Optimal Resources Inc.	99.9%	2.0%	3.2	282	-	297	3.2	240	145.2	28.1
Unconventional Gas Resources Canada Operating Inc.	96.3%	2.3%	3.2	283	-	297	3.2	240	699.6	469.6
Hawley Resources Ltd.	99.9%	-0.3%	3.1	284	-	297	3.1	241	402.0	66.7
Exeter Resources Ltd.	0.0%	0.0%	2.9	285	-	297	2.9	243	137.8	2.9
Tuxis Water Disposal Inc.	0.0%	N/A	2.8	286	-	297	2.8	244	131.2	2.8
Cuss Resources Ltd.	97.7%	-0.4%	2.8	286	2.8	268	-	273	368.8	124.1
Tandem Energy Corporation	58.9%	6.7%	2.7	288	-	297	2.7	245	552.4	751.5
Rugal Energy Inc.	97.0%	-3.0%	2.6	289	-	297	2.6	246	66.5	97.2
Alta Resources Ltd.	94.9%	4.1%	2.4	290	-	297	2.4	248	577.2	46.2
Sphere Energy Corp.	98.1%	35.8%	2.4	291	-	297	2.4	248	2,056.7	91.2
Corvet Energy Ltd.	0.0%	0.0%	2.2	292	-	297	2.2	250	206.9	2.2
Rise Resources Corp.	0.0%	-4.1%	2.2	293	2.0	269	0.2	268	172.4	2.2
Gunner Resources Inc.	25.0%	11.1%	2.1	294	-	297	2.1	251	516.5	2.9
Cuneiform Exploration Corp.	100.0%	0.0%	2.1	294	2.1	269	-	273	15,536.6	26,516.9
Petrobank Energy and Resources Ltd.	0.0%	0.0%	2.0	296	-	297	2.0	252	427.2	2.0
Tri-Mark Corporation Ltd.	94.1%	2.9%	1.9	297	-	297	1.9	253	35.5	2.9
Mikolaio Drilling Ltd.	0.0%	0.0%	1.7	298	-	297	1.7	254	295.9	1.7
Renegade Petroleum Ltd.	97.7%	-1.7%	1.7	299	1.6	281	0.1	269	1,786.5	73.5
Western Plains Petroleum Ltd.	0.0%	0.0%	1.7	299	1.7	268	-	273	979.7	1.7
Five C Oil & Gas Ltd.	0.0%	0.0%	1.6	300	1.6	281	-	273	419.5	1.6
Xpand Energy Ltd.	58.6%	0.0%	1.5	301	-	297	1.5	256	635.7	340.2
Sunrise Energy Inc.	99.9%	2.1%	1.5	302	1.5	282	-	273	1,654,946.4	1,654.9

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COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED ($1000\ m^3$)	GAS FLARED + VENTED RANK	GAS FLARED ($1000\ m^3$)	FLARE RANK	GAS VENTED ($1000\ m^3$)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD ($1000\ m^3$)
Fox Creek Petroleum Corp.	99.2%	0.2%	1.4	**370**	-	297	1.4	257	1,049.6	178.0
LOF Energy Ltd.	0.0%	0.0%	1.4	**370**	-	297	1.4	257	405.8	1.4
Band Energy Resources Ltd.	80.3%	9.9%	1.3	**371**	-	297	1.3	258	280.8	6.6
Grand Rapids Petroleum Ltd.	0.0%	0.0%	1.2	**372**	-	297	1.2	259	684.2	1.2
Northern Hunter Energy Inc.	99.8%	0.4%	1.2	**372**	-	297	1.2	259	968.6	509.9
Red Coat Oil & Gas (2005) Ltd.	0.0%	0.0%	1.1	**373**	-	297	1.1	260	107.0	1.1
Emerald Bay Energy Inc.	0.0%	0.0%	1.0	**374**	-	297	1.0	261	161.9	1.0
Sabanero Energy Corp.	74.4%	74.4%	1.0	**374**	-	297	1.0	261	195.1	3.9
The Locke Stock & Barrel Company Ltd.	0.0%	0.0%	1.0	**374**	-	297	1.0	261	481.0	1.0
Edalis Energy Inc.	99.9%	0.5%	0.6	**375**	-	297	0.6	264	3,130.5	919.6
Nordic Oil & Gas Ltd.	0.0%	0.0%	0.6	**375**	-	297	0.6	264	237.7	0.6
Freemont Resources Ltd.	83.8%	N/A	0.6	**375**	0.6	295	-	270	3,345.4	3.7
Murelle Enterprises Inc.	99.5%	0.1%	0.5	**376**	-	297	0.5	265	257.5	96.8
AltaGas Ltd.	100.0%	0.0%	0.4	**377**	-	297	0.4	266	2,597.3	3,127.2
One Earth Oil & Gas Inc.	99.9%	0.0%	0.4	**377**	-	297	0.4	266	1,143.5	304.4
Roswell Petroleum Corporation	0.0%	0.0%	0.4	**377**	-	297	0.4	266	78.3	0.4
Black Swan Energy Ltd.	0.0%	N/A	0.2	**378**	-	297	0.2	268	211.7	0.2
Luxor Oil And Gas Ltd.	0.0%	-99.3%	0.2	**378**	-	297	0.2	268	26.0	0.2
Pocahontas Petroleum Ltd.	0.0%	N/A	0.2	**378**	-	297	0.2	268	0.2	0.2
Halvar Resources Ltd.	100.0%	1.2%	0.1	**379**	-	297	0.1	269	11,545.2	269.2
Madalena Energy Inc.	100.0%	N/A	0.1	**379**	-	297	0.1	269	9,971.5	16,188.1
Qwest Diversified Capital Corporation	100.0%	N/A	0.1	**379**	-	297	0.1	269	588.6	491.0
Trident Exploration (Alberta) Corp.	99.9%	0.0%	0.1	**379**	-	297	0.1	269	70.2	109.4
Sunrise Energy Ltd.	0.0%	0.0%	0.1	**379**	0.1	296	-	270	187.5	0.1
1288131 Alberta Ltd.	100.0%	0.0%	-	**380**	-	297	-	270	729.6	347.5
Adanac Oil & Gas Limited	100.0%	0.0%	-	**380**	-	297	-	270	1,958.4	782.2
Avalon Energy Ltd.	100.0%	0.0%	-	**380**	-	297	-	270	142.6	4.7
Avatar Energy Ltd.	100.0%	10.9%	-	**380**	-	297	-	270	153.9	57.6
Beatton Energy Inc.	100.0%	0.0%	-	**380**	-	297	-	270	514.6	92.5
Blackhawk Resource Operating Corp.	100.0%	62.8%	-	**380**	-	297	-	270	1,580.1	34.1
Blackspur Oil Corp.	100.0%	N/A	-	**380**	-	297	-	270	6,161.1	156.2
Bounty Developments Ltd.	100.0%	0.0%	-	**380**	-	297	-	270	226.2	6.0
Calhex Resources Ltd.	100.0%	0.0%	-	**380**	-	297	-	270	1,276.9	88.2
Camino Industries Inc.	100.0%	0.3%	-	**380**	-	297	-	270	219.3	4,275.1
Canadian Abraxas Petroleum, ULC	100.0%	0.0%	-	**380**	-	297	-	270	3,815.5	3,276.5

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COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
Canamax Energy Ltd.	100.0%	N/A	-	380	-	297	-	270	1,080.2	1,737.7
Canyon Oil & Gas Corporation	100.0%	0.0%	-	380	-	297	-	270	90.7	589.5
Centennial Petroleum Company Ltd.	100.0%	0.0%	-	380	-	297	-	270	620.7	1,075.2
CNPC International (Canada) Ltd.	0.0%	0.0%	-	380	-	297	-	270	180.7	-
Desmarais Energy Corporation	100.0%	0.0%	-	380	-	297	-	270	907.8	929.8
Dolomite Energy Inc.	100.0%	52.0%	-	380	-	297	-	270	9,774.8	104.1
E-T Energy Ltd.	0.0%	0.0%	-	380	-	297	-	270	473.4	-
Edge Resources Inc.	100.0%	0.0%	-	380	-	297	-	270	4,751.7	250.3
Eiger Energy Ltd.	100.0%	1.2%	-	380	-	297	-	270	247.1	16.9
Elkwater Resources Ltd.	100.0%	0.0%	-	380	-	297	-	270	303.9	1,187.3
Enerstar Petroleum Corp.	100.0%	0.0%	-	380	-	297	-	270	322.3	12.3
Ferrybank Resources Ltd.	100.0%	0.0%	-	380	-	297	-	270	1,449.0	470.3
Four Winds Energy Services Ltd.	100.0%	0.0%	-	380	-	297	-	270	721.2	139.7
Gateway Petroleum Inc.	100.0%	0.0%	-	380	-	297	-	270	243.9	196.4
Golden Coast Energy Corp.	100.0%	N/A	-	380	-	297	-	270	99.1	4.0
Hawk Exploration Ltd.	100.0%	0.0%	-	380	-	297	-	270	13,395.1	1,870.5
InPlay Oil Corp.	100.0%	N/A	-	380	-	297	-	270	50.3	48.4
International Frontier Resources Corporation	100.0%	0.0%	-	380	-	297	-	270	2,286.4	89.1
Knowledge Energy Inc.	100.0%	0.0%	-	380	-	297	-	270	939.0	4,084.3
Land Petroleum International Inc.	0.0%	0.0%	-	380	-	297	-	270	214.6	-
Lateral Capital Corp.	0.0%	0.0%	-	380	-	297	-	270	18.5	-
Linklater Lp	100.0%	0.0%	-	380	-	297	-	270	635.1	6.2
Logic Energy Ltd.	100.0%	N/A	-	380	-	297	-	270	13,539.0	9,607.2
Malak Energy Inc.	100.0%	2.1%	-	380	-	297	-	270	1,455.4	227.1
Mika Resources Ltd	100.0%	0.0%	-	380	-	297	-	270	107.4	712.7
Milen's Oilfield Enterprises Ltd.	100.0%	0.2%	-	380	-	297	-	270	109.9	2,820.9
MOGL Corp.	100.0%	0.0%	-	380	-	297	-	270	357.2	433.2
Mount Dakota Energy Corp.	100.0%	0.0%	-	380	-	297	-	270	263.8	20.8
Northern Patriot Oil & Gas Ltd.	100.0%	0.0%	-	380	-	297	-	270	7,438.9	1,421.2
Northern Utilities (sask.) Ltd.	100.0%	100.0%	-	380	-	297	-	270	250.4	0.9
Nytis Exploration Company Inc.	100.0%	0.3%	-	380	-	297	-	270	809.4	154.0
Online Energy Inc.	100.0%	8.2%	-	380	-	297	-	270	1,646.1	2,783.0
Pennine Petroleum Corporation	100.0%	90.6%	-	380	-	297	-	270	757.6	7.6
Pine Cliff Energy Ltd.	100.0%	0.0%	-	380	-	297	-	270	1,526.6	11,068.7
Revive Energy Corp	100.0%	0.0%	-	380	-	297	-	270	16.9	2.0

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COMPANY	GAS CONS	GAS CONS CHANGE	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	SOLN GAS PROD (1000 m³)
RIA Resources Corp.	100.0%	0.0%	-	380	-	297	-	270	806.2	732.1
Rimfire Energy Inc.	100.0%	5.9%	-	380	-	297	-	270	2,918.0	3,598.9
Rockbridge Energy Alberta Inc.	100.0%	N/A	-	380	-	297	-	270	85.2	46.9
Seven Generations Energy Ltd.	100.0%	3.6%	-	380	-	297	-	270	3,691.6	5,722.7
Shackleton Exploration Ltd.	100.0%	N/A	-	380	-	297	-	270	9,335.2	18,237.9
Shapco Resources Ltd.	100.0%	0.0%	-	380	-	297	-	270	489.5	811.0
Silver Bay Resources Ltd.	100.0%	0.0%	-	380	-	297	-	270	156.4	246.5
Southern Pacific Resource Corp.	100.0%	19.3%	-	380	-	297	-	270	87,068.2	351.6
Spartan Energy Corp.	100.0%	N/A	-	380	-	297	-	270	27,338.0	5,835.1
Spur Resources Ltd.	100.0%	1.8%	-	380	-	297	-	270	4,475.1	4,726.4
Summerfield Energy Inc.	100.0%	0.0%	-	380	-	297	-	270	364.3	123.1
Sun Star Energy Inc.	100.0%	0.0%	-	380	-	297	-	270	572.4	824.6
Westhill Resources Limited	100.0%	0.0%	-	380	-	297	-	270	631.3	5,664.6
Williston Hunter Canada, Inc.	100.0%	0.0%	-	380	-	297	-	270	16,278.3	2,302.0
Winter Petroleum Ltd.	100.0%	0.0%	-	380	-	297	-	270	612.8	686.3
WLA Investment Ltd.	100.0%	0.0%	-	380	-	297	-	270	2,178.0	638.9
Yoho Resources Inc.	100.0%	0.0%	-	380	-	297	-	270	220.6	1,914.0
Znx Energy Ltd.	100.0%	0.0%	-	380	-	297	-	270	2,014.9	1,822.3
PROVINCIAL TOTALS	**96.3%**		**894,962.5**		**492,160.9**		**402,801.6**		**85,886,899.9**	**18,987,269.9**

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

COMPANY	GAS FORM	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOLN GAS PROD (1000 m^3)
Questfire Energy Corp.	15.5%	297.8	36	151.3	41	136.5	27	193.9	340.7
Canadian Natural Resources Limited	97.9%	289.9	37	114.2	45	172.7	23	32,064.9	13,839.9
Ontera Energy Inc.	80.3%	269.3	38	249.7	35	0.6	81	7,585.5	1,704.6
Devon Canada	72.0%	231.5	39	-	80	231.5	18	742.5	835.8
Baseside Energy Corporation	59.2%	223.4	40	-	80	223.4	19	40,057.0	27,626.0
07607 Resources Ltd.	29.4%	218.1	41	216.9	37	1.2	78	843.7	308.9
ConocoPhillips Canada Energy Partnership	59.5%	192.6	42	-	80	192.6	21	18,014.8	39,963.0
Baytex Energy Ltd.	58.8%	192.0	43	175.6	38	16.4	59	31,467.6	16,575.9
MEG Energy Corporation	56.2%	185.9	44	12.7	61	173.1	22	1,501.1	1,889.0
Spartan Oil Corp.	56.5%	167.7	45	54.3	55	113.4	30	34,879.4	8,282.0
Freehold Royalties Ltd.	0.0%	166.7	46	-	80	166.7	24	366.6	166.7
Marcel Energy Inc.	98.5%	163.0	47	137.3	43	25.7	51	5,317.1	11,177.0
Westbrook Energy Ltd.	97.2%	161.7	48	161.7	39	-	86	3,695.0	5,848.0
Bergeta Exploration Inc.	35.3%	159.1	49	159.1	40	-	86	362.9	245.7
Talisman Energy Inc.	99.1%	157.5	50	110.4	46	47.1	42	15,506.7	16,494.3
Tamarack Acquisition Corp.	91.0%	150.3	51	150.3	42	-	86	2,326.6	790.2
Athlone Energy Inc.	97.6%	148.1	52	102.1	47	46.0	43	7,812.7	6,101.2
Longview Oil Corp.	95.0%	145.9	53	-	80	145.9	25	11,095.5	2,914.0
Nordrock Canada Energy Services Ltd.	99.8%	125.9	54	-	80	125.9	28	4,501.0	56,623.1
AvanEra Energy Corp.	24.7%	118.1	55	115.8	44	2.3	75	1,659.8	156.9
Advantage Oil & Gas Ltd.	68.5%	117.4	56	-	80	117.4	29	2,560.3	372.8
Long Run Exploration Ltd.	96.6%	116.9	57	51.5	56	65.4	38	2,949.8	3,481.8
3BM17 Alberta Ltd.	84.7%	111.5	58	1.4	74	110.1	31	2,624.6	727.5
Keyera Energy Ltd.	0.0%	101.8	59	101.8	48	-	86	-	-
Insignia Energy Ltd.	98.9%	101.7	60	-	80	101.7	32	11,444.0	9,186.8
Del Rio Resources Ltd.	13.6%	96.6	61	96.6	49	-	86	262.8	108.3
White Rain Resources Ltd.	40.5%	91.2	62	-	80	91.2	33	291.4	154.3
Jiali Fou Petroleums Ltd.	22.7%	89.1	63	68.8	53	20.3	54	2,141.5	115.2
Path Resources Ltd.	91.6%	82.5	64	76.4	50	6.1	68	1,880.2	447.6
Darrick Petroleum Ltd.	62.2%	80.9	65	-	80	80.9	34	1,319.2	454.6
Pengrowth Energy Corporation	56.6%	77.7	66	0.1	79	77.6	35	8,442.9	33,140.3
Lockwood Resources Ltd.	0.0%	72.4	67	72.4	51	-	86	1,449.7	72.4
Wenbit Energy Inc.	94.0%	69.5	68	69.5	52	-	86	120.4	1,158.9
Nordegg Resources Inc.	99.5%	57.4	69	57.4	54	-	86	2,951.3	11,294.7
Tamarack Valley Energy Ltd.	99.9%	52.0	70	1.2	75	50.8	40	1,934.2	9,938.9

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COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
New North Resources Ltd.	94.4%	36.5	71	-	80	36.5	44	915.0	647.8
Crew Energy Inc.	99.6%	36.3	72	3.1	70	33.2	46	3,371.9	9,967.1
Highvale Operating Corp.	72.4%	34.1	73	1.5	73	32.6	47	535.9	123.7
Tallgrass Energy Corp.	98.8%	33.9	74	25.6	57	8.3	66	8,111.5	2,848.8
Conserve Oil 6th Corporation	99.5%	32.3	75	16.9	59	15.4	60	2,549.8	6,120.3
Crazy Hill Resources Ltd.	0.0%	29.9	76	-	80	29.9	48	217.8	29.9
Zargon Oil & Gas Ltd.	96.7%	26.0	77	-	80	26.0	49	2,166.4	775.6
Delphi Energy Corp.	99.3%	25.8	78	-	80	25.8	50	2,328.7	3,768.5
Paramount Resources Ltd.	98.1%	24.3	79	-	80	24.3	52	1,482.5	1,246.3
Petroglobe Inc.	21.3%	22.5	80	22.5	58	-	86	129.0	28.6
Kaiser Exploration Ltd.	0.0%	21.8	81	-	80	21.8	53	82.6	21.8
Cangild Resources Ltd.	0.0%	19.4	82	-	80	19.4	55	78.0	19.4
Wilcox Energy Corp.	65.7%	18.8	83	2.0	71	16.8	58	647.9	54.8
Marquee Energy Ltd.	99.9%	18.5	84	7.2	64	11.3	62	7,277.5	14,853.2
Exoro Energy Inc.	99.8%	14.5	85	14.5	60	-	86	13,275.5	7,253.9
Eclipse Resources Ltd.	99.7%	12.7	86	3.9	67	8.8	65	8,148.4	4,211.2
Harvest Operations Corp.	99.9%	11.1	87	8.5	63	2.6	74	6,074.4	7,681.7
Angle Energy Inc.	98.9%	10.4	88	-	80	10.4	63	538.6	951.9
Premier Petroleum Corp.	0.0%	9.5	90	-	80	9.5	64	127.3	9.5
Beringer Energy Inc.	99.6%	8.9	91	6.7	65	2.2	76	644.6	2,028.9
Anderson Energy Ltd.	99.7%	7.5	92	0.1	79	7.4	67	1,498.4	2,914.6
Canadian Oil & Gas International Inc.	99.2%	6.3	93	6.3	66	-	86	273.1	762.5
ConocoPhillips Canada Resources Corp.	99.9%	6.1	94	-	80	6.1	68	4,161.4	6,931.0
Conocophillips Western Canada Partnership	99.3%	5.7	95	-	80	5.7	69	1,392.3	783.0
Petrus Resources Ltd.	45.8%	4.5	96	3.7	69	0.8	80	763.4	8.3
Trilogy Resources Ltd.	99.8%	3.9	97	-	30	3.9	72	323.0	1,595.5
Ish Energy Ltd.	99.2%	3.8	98	3.8	68	-	86	94.6	456.1
Signalta Resources Limited	99.7%	2.8	99	-	80	2.8	73	1,059.5	844.2
Shell Canada Energy	100.0%	2.1	100	-	80	2.1	77	4,114.6	9,901.1
Shiningstar Energy Ltd.	99.9%	1.6	101	1.6	72	-	86	567.3	1,095.3
TimberRock Energy Corp.	92.0%	1.4	102	0.8	77	0.6	81	230.6	17.4
Superman Resources Inc.	99.8%	1.2	103	-	80	1.2	78	491.4	607.6
Arsenal Energy Inc.	21.4%	1.1	104	-	80	1.1	79	293.9	1.4
Perpetual Energy Operating Corp.	100.0%	0.9	105	0.9	76	-	86	2,300.4	9,557.4
Murelle Enterprises Inc.	99.5%	0.5	106	-	80	0.5	82	257.5	96.8

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COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
Sonde Resources Corp.	99.8%	0.4	107	-	80	0.4	83	209.4	240.3
CQ Energy Canada Resources Partnership	99.9%	0.2	108	0.2	78	-	86	1,820.3	362.4
Madalena Energy Inc.	100.0%	0.1	109	-	80	0.1	85	9,715.2	15,896.8
Adanac Oil & Gas Limited	100.0%	-	110	-	80	-	86	1,958.4	782.2
Bumper Development Corporation Ltd.	100.0%	-	110	-	80	-	86	219.2	3,031.8
Canamax Energy Ltd.	100.0%	-	110	-	80	-	86	1,080.2	1,737.7
Celtic Exploration ULC	100.0%	-	110	-	80	-	86	50.8	36.8
Centennial Petroleum Company Ltd.	100.0%	-	110	-	80	-	86	620.7	1,075.2
Cequence Energy Ltd.	0.0%	-	110	-	80	-	86	6.3	-
Direct Energy Marketing Limited	100.0%	-	110	-	80	-	86	2,955.3	9,711.2
Elkwater Resources Ltd.	100.0%	-	110	-	80	-	86	137.1	664.6
Gateway Petroleum Inc.	0.0%	-	110	-	80	-	86	18.1	-
KinMerc Oil & Gas Inc.	100.0%	-	110	-	80	-	86	473.2	2.4
Land Petroleum International Inc.	0.0%	-	110	-	80	-	86	199.8	-
Mosaic Energy Ltd.	100.0%	-	110	-	80	-	86	6,869.1	6,379.3
Mount Dakota Energy Corp.	100.0%	-	110	-	80	-	86	263.8	20.8
Navarone Energy Corporation	100.0%	-	110	-	80	-	86	341.9	310.7
Northern Patriot Oil & Gas Ltd.	100.0%	-	110	-	80	-	86	7,346.6	1,271.9
Online Energy Inc.	100.0%	-	110	-	80	-	86	1,601.5	2,717.7
Pine Cliff Energy Ltd.	100.0%	-	110	-	80	-	86	1,526.6	11,068.7
Regent Resources Ltd.	100.0%	-	110	-	80	-	86	203.9	312.1
Rimfire Energy Inc.	100.0%	-	110	-	80	-	86	1,331.8	1,344.3
Solara Exploration Ltd.	100.0%	-	110	-	80	-	86	2,958.6	3,610.2
Spry2 Energy Inc.	100.0%	-	110	-	80	-	86	7,640.3	1,091.0
Sure Energy Inc.	100.0%	-	110	-	80	-	86	176.1	289.5
TriOil Resources Ltd.	100.0%	-	110	-	80	-	86	5,224.4	8,320.1
Twin Butte Energy Ltd.	100.0%	-	110	-	80	-	86	193.9	614.6
WLA Investment Ltd.	100.0%	-	110	-	80	-	86	2,178.0	638.9
XTO Energy Canada	100.0%	-	110	-	80	-	86	688.5	592.1
TOTALS FOR DRAYTON VALLEY	**98.1%**	**69,773.4**		**53,663.3**		**16,110.1**		**5,169,234.0**	**3,581,754.5**

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

FIELD CENTRE RANKING OF OPERATORS – 2013 FLARED + VENTED VOLUME[1]
GRANDE PRAIRIE CRUDE OIL AND CRUDE BITUMEN BATTERIES FOR ALBERTA
RUN DATE: May 12, 2014

COMPANY	GAS CONS	GAS FLARED + VENTED ($1000\ m^3$)	GAS FLARED + VENTED RANK	GAS FLARED ($1000\ m^3$)	FLARE RANK	GAS VENTED ($1000\ m^3$)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD ($1000\ m^3$)
Baytex Energy Ltd.	76.6%	18,740.2	1	18,576.5	1	163.7	18	1,304,466.1	80,109.0
Penn West Petroleum Ltd.	82.7%	17,787.9	2	17,542.6	2	245.3	15	303,080.1	102,904.2
Canadian Natural Resources Limited	98.2%	10,605.0	3	9,234.7	3	1,370.3	2	856,393.2	593,153.7
Canadian International Oil Operating Corp.	83.5%	8,439.0	4	8,405.3	4	33.7	34	43,289.4	51,188.8
Surge Energy Inc.	95.0%	7,063.7	5	7,063.7	5	-	68	132,234.2	140,177.7
Long Run Exploration Ltd.	98.5%	3,251.2	6	3,023.7	6	227.5	16	330,556.0	210,986.1
Omers Energy Inc.	85.9%	2,822.2	7	2,822.2	7	-	68	20,224.7	20,006.5
Kelt Exploration Ltd.	86.6%	2,790.6	8	2,790.6	8	-	68	14,720.8	20,748.4
Husky Oil Operations Limited	98.9%	2,438.0	9	368.5	37	2,069.5	1	192,412.1	229,625.3
Birchcliff Energy Ltd.	98.1%	2,279.2	10	2,011.5	11	267.7	12	206,257.7	117,061.9
Encana Corporation	99.2%	2,263.4	11	2,261.1	9	2.3	58	226,775.1	277,275.7
ARC Resources Ltd.	99.4%	2,238.0	12	2,219.6	10	18.4	42	321,372.1	369,420.9
TAQA North Ltd.	95.7%	2,231.5	13	1,419.7	15	811.8	3	41,667.0	51,505.7
Trilogy Resources Ltd.	95.9%	1,983.6	14	1,904.0	12	79.6	25	84,599.9	48,879.6
Flow-Back Oil & Gas Ltd.	0.0%	1,808.3	15	1,808.3	13	-	68	1,092.6	1,808.3
Mancal Energy Inc.	88.6%	1,770.0	16	1,220.2	18	549.8	5	55,161.5	15,523.3
Exshaw Oil Corp.	99.1%	1,560.7	17	1,557.5	14	3.2	55	154,618.9	175,143.8
Whitecap Resources Inc.	98.7%	1,482.0	18	1,353.5	16	128.5	22	141,133.5	110,179.8
Crew Energy Inc.	19.7%	1,412.4	19	1,255.9	17	156.5	19	3,477.7	1,759.2
Harvest Operations Corp.	93.6%	1,362.6	20	1,157.3	19	205.3	17	71,781.6	21,177.5
Devon Canada	98.9%	1,210.8	21	904.8	22	306.0	9	158,275.3	106,398.0
Conocophillips Canada Energy Partnership	88.3%	1,036.3	22	1,029.0	20	7.3	49	6,215.2	8,876.1
Murphy Oil Company Ltd.	65.0%	984.6	23	632.4	24	352.2	6	35,234.2	2,813.9
Enerplus Corporation	97.3%	963.3	24	921.5	21	41.8	32	48,775.0	35,280.2
Mosaic Energy Ltd.	97.9%	929.3	25	171.1	48	758.2	4	29,484.1	43,654.1
Apache Canada Ltd.	88.3%	774.2	26	440.9	28	333.3	7	39,801.6	6,616.2
Bonavista Energy Corporation	98.6%	739.4	27	406.4	31	333.0	8	65,723.5	51,808.5
Tourmaline Oil Corp.	94.9%	651.0	28	651.0	23	-	68	7,081.4	12,688.9
Shoreline Energy Corp.	90.0%	564.8	29	555.9	25	8.9	46	7,117.6	5,673.3
Paramount Resources Ltd.	95.7%	552.3	30	547.4	27	4.9	52	9,828.0	12,775.4
Crescent Point Energy Corp.	97.4%	550.5	31	550.5	26	-	68	42,927.8	21,337.1
Iteration Energy	98.8%	532.3	32	255.6	43	276.7	11	33,802.7	44,476.8
Shell Canada Energy	98.3%	532.0	33	401.6	32	130.4	21	323,059.6	30,537.1
Sinopec Daylight Energy Ltd.	95.7%	476.6	34	400.7	33	75.9	26	25,750.8	11,032.6
Progress Energy Canada Ltd.	99.4%	439.0	35	147.9	52	291.1	10	86,984.1	69,306.2

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

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COMPANY	GAS CODE	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOLN GAS PROD (1000 m^3)
Apache Canada Ltd.	37.8%	3,351.7	1	3,351.5	1	0.2	10	110,743.7	154,099.9
Husky Oil Operations Limited	30.8%	2,959.5	2	2,959.3	2	1.2	7	543,904.1	1,116,070.8
Cenovus Resources Corp.	0.0%	1,434.7	3	1,434.3	3	0.4	9	12,390.7	1,434.7
NuVista Energy Ltd.	25.2%	1,211.0	4	1,210.1	4	0.9	8	15,975.8	1,618.9
Strategic Oil & Gas Ltd.	94.2%	1,039.2	5	1,034.9	5	21.3	1	113,332.4	18,358.4
ARC Resources Ltd.	93.3%	921.9	6	918.5	6	3.3	5	23,252.8	4,618.9
Keyera Energy	24.7%	892.7	7	881.8	7	10.9	3	15,876.2	1,185.6
Pace Oil & Gas Ltd.	0.0%	803.1	8	803.1	8	-	11	6,807.5	803.0
BLX Energy Ltd.	0.0%	52.8	9	52.8	9	-	11	352.1	52.8
Canadian Natural Resources Limited	100.0%	10.7	10	3.1	13	10.6	2	44,793.1	12,942.5
[redacted]	0.0%	17.3	11	14.8	10	2.5	6	2,930.4	17.3
Wallace Ventures Ltd.	35.7%	10.6	12	-	15	10.6	2	454.3	25.8
Kent's Sand Casting Ltd.	0.0%	10.0	13	10.0	11	-	11	207.5	10.0
Barrier Reef Resources Ltd.	0.0%	8.4	14	5.0	12	3.4	4	1,657.9	8.4
Polar Star Canadian Oil And Gas, Inc.	99.1%	2.1	15	2.1	14	-	11	7,087.9	397.5
Devon Canada	100.0%	-	16	-	15	-	11	4,361.2	9,432.4
Lightstream Resources Ltd.	0.0%	-	16	-	15	-	11	68.5	-
Surge Energy Inc.	100.0%	-	16	-	15	-	11	1,389.9	105.8
Winter Petroleum Ltd.	100.0%	-	16	-	15	-	11	612.8	686.3
TOTALS FOR HIGH LEVEL	**86.7%**	**12,166.6**		**12,091.3**		**77.3**		**885,718.8**	**1,381,798.8**

[1] Caution is required when comparing with last year's report due to corporate mergers, acquisitions, and divestments.

FIELD CENTRE RANKING OF OPERATORS – 2013 FLARED + VENTED VOLUME[1]
MEDICINE HAT CRUDE OIL AND CRUDE BITUMEN BATTERIES FOR ALBERTA
RUN DATE: May 12, 2014

COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
Crew Energy Inc.	87.4%	10,273.1	1	10,272.1	1	1.0	55	221,584.5	81,752.5
Deethree Exploration Ltd.	74.4%	7,767.6	2	7,719.8	2	47.8	20	196,485.3	30,384.5
Connaught Oil & Gas Ltd.	0.0%	5,231.2	3	5,231.2	3	-	60	10,295.5	5,231.2
Canadian Natural Resources Limited	95.0%	4,100.6	4	3,955.7	4	144.9	10	539,506.3	81,321.3
Penn West Petroleum Ltd.	91.2%	3,943.4	5	3,008.8	5	934.6	3	234,758.3	44,778.2
Crescent Point Energy Corp.	21.2%	3,200.8	6	3,006.9	6	193.9	8	19,391.6	4,062.5
Cenovus Energy Inc.	97.7%	3,079.4	7	982.4	14	2,097.0	1	1,004,372.6	136,462.8
Harvest Operations Corp.	78.1%	2,750.5	8	2,735.4	7	15.1	34	133,332.6	12,531.3
TORC Oil & Gas Ltd.	0.0%	2,551.0	9	2,551.0	8	-	60	26,385.0	2,551.0
ARC Resources Ltd.	34.1%	2,245.1	10	2,233.1	9	12.0	37	36,345.3	3,408.0
Husky Oil Operations Limited	95.2%	2,153.0	11	1,866.5	11	286.5	7	373,676.0	45,212.4
Spyglass Resources Corp.	81.0%	2,146.7	12	2,111.2	10	35.5	22	39,371.9	11,299.8
City of Medicine Hat	36.0%	1,326.9	13	657.6	19	669.3	5	26,255.9	2,074.4
Contour Energy Ltd.	47.3%	1,066.3	14	388.5	26	677.8	4	12,374.4	2,023.0
Traverse Energy Ltd.	18.0%	1,041.0	15	1,020.2	12	20.8	30	5,377.6	1,269.2
Zargon Oil & Gas Ltd.	57.2%	999.7	16	999.5	13	0.2	58	52,912.0	2,335.7
Conocophillips Canada Energy Partnership	94.9%	964.5	17	25.3	49	939.2	2	59,870.6	18,786.7
Cardinal Energy Ltd.	59.1%	868.4	18	835.7	16	32.7	24	6,999.3	2,121.9
Broadview Energy Ltd.	45.2%	853.5	19	847.1	15	6.4	43	8,046.6	1,558.6
AvenEx Energy Corp.	37.8%	781.2	20	775.2	17	6.0	44	9,131.1	1,256.2
EOG Resources Canada Inc.	85.4%	751.2	21	735.0	18	16.2	31	8,065.8	5,153.7
First Mountain Exploration Ltd.	0.0%	630.5	22	630.5	20	-	60	453.2	630.5
Iteration Energy	62.3%	555.3	23	554.8	21	0.5	57	9,922.2	1,471.3
United Hunter Oil & Gas Corp.	0.0%	541.2	24	541.2	22	-	60	331.0	541.2
TAQA North Ltd.	94.2%	475.6	25	475.6	23	-	60	70,601.6	8,181.6
Strategic Oil & Gas Ltd.	18.2%	430.3	26	354.0	29	76.3	13	5,409.3	526.1
Lgx Oil + Gas Inc.	88.5%	420.3	27	420.1	24	0.2	58	34,479.8	3,641.2
Gryphon Petroleum Corp.	45.8%	419.2	28	419.1	25	0.1	59	5,514.4	773.5
Pengrowth Energy Corporation	99.1%	417.6	29	342.1	30	75.5	14	227,257.2	47,702.6
Conserve Oil & Gas No. II Corporation	0.0%	388.5	30	388.5	26	-	60	5,579.5	388.5
Hemisphere Energy Corporation	80.2%	380.4	31	309.6	31	70.8	16	17,738.8	1,919.3
Journey Energy Inc.	98.9%	373.5	32	-	60	373.5	6	71,182.7	34,827.4
Conserve Oil 6th Corporation	53.9%	361.8	33	361.8	27	-	60	5,874.8	784.5
Petro Viking Management Corp.	52.6%	360.0	34	360.0	28	-	60	1,533.7	760.0
Pace Oil & Gas Ltd.	93.6%	270.6	35	249.2	33	21.4	29	9,334.9	4,192.8

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COMPANY	GAS CONS	GAS FLARED + VENTED ($1000 m^3$)	GAS FLARED + VENTED RANK	GAS FLARED ($1000 m^3$)	FLARE RANK	GAS VENTED ($1000 m^3$)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD ($1000 m^3$)
Ashton Oil & Gas Ltd.	17.0%	268.0	36	268.0	32	-	60	6,456.9	323.0
Enerplus Corporation	99.6%	248.9	37	242.5	34	6.4	43	425,859.0	61,093.1
Conserve Oil 1st Corporation	35.3%	237.3	38	237.3	35	-	60	3,062.5	366.7
West Valley Energy Corp.	37.0%	219.5	39	219.4	36	0.1	59	462.6	348.3
Bonavista Energy Corporation	95.8%	193.6	40	11.6	53	182.0	9	59,932.2	4,561.5
Marquee Energy Ltd.	99.0%	193.5	41	169.0	39	24.5	27	31,324.1	19,094.5
Canadian Oil & Gas International Inc.	35.7%	191.1	42	191.1	37	-	60	2,809.4	297.4
Arsenal Energy Inc.	98.7%	185.9	43	183.8	38	2.1	51	21,843.0	13,764.1
Alberta Petroleum Energy Limited	7.6%	162.6	44	116.8	41	45.8	21	3,428.8	176.0
Novus Energy Inc.	77.9%	142.3	45	142.3	40	-	60	773.1	644.2
Questerre Energy Corporation	0.0%	120.2	46	-	60	120.2	11	1,214.5	120.2
Surge Energy Inc.	67.9%	106.4	47	106.4	42	-	60	1,637.7	331.6
Baytex Energy Ltd.	96.8%	103.5	48	70.2	44	33.3	23	8,095.3	3,279.8
Ascensun Oil And Gas Ltd.	20.4%	81.0	49	81.0	43	-	60	1,266.8	101.8
Signalta Resources Limited	95.3%	80.9	50	69.0	45	11.9	38	2,013.2	1,729.2
NuVista Energy Ltd.	93.8%	78.5	51	-	60	78.5	12	2,644.7	1,267.1
Sanford Petroleum Ltd.	0.0%	74.3	52	-	60	74.3	15	2,857.5	74.3
Sonde Resources Corp.	97.0%	74.1	53	60.8	47	13.3	36	3,606.7	2,453.1
Twin Butte Energy Ltd.	87.9%	63.4	54	-	60	63.4	17	1,168.3	522.8
Celtic Exploration ULC	95.8%	62.2	55	48.4	48	13.8	35	4,985.8	1,473.9
Standard Exploration Ltd.	39.9%	61.8	56	61.8	46	-	60	3,626.5	102.9
ConocoPhillips Canada Resources Corp.	98.8%	60.0	57	-	60	60.0	18	10,117.1	4,901.9
Palliser Oil & Gas Corporation	16.1%	50.4	58	-	60	50.4	19	296.7	60.1
XTO Energy Canada	98.1%	46.5	59	23.2	50	23.3	28	8,451.1	2,473.1
Lightstream Resources Ltd.	95.1%	31.1	60	-	60	31.1	25	4,823.1	635.0
Tower Ridge Enterprises Corp.	49.7%	31.1	60	-	60	31.1	25	419.4	61.8
Tykewest Limited	83.1%	28.5	61	-	60	28.5	26	2,697.8	168.3
Success Resources Ltd.	99.3%	17.4	62	17.4	51	-	60	2,391.9	2,431.5
Ridal Resource Ltd.	0.0%	16.0	63	-	60	16.0	32	177.2	16.0
Direct Energy Marketing Limited	99.9%	15.6	64	-	60	15.6	33	21,392.8	17,642.6
Indra Oil & Gas Ltd.	0.0%	14.5	65	4.0	57	10.5	39	352.0	14.5
Convega Energy Ltd.	95.4%	12.2	66	12.2	52	-	60	218.7	265.2
Successor Resources Ltd.	99.0%	10.2	67	10.2	54	-	60	2,592.2	1,033.5
Deckland Inc.	99.1%	8.9	68	-	60	8.9	40	3,461.1	1,023.5
Paramount Resources Ltd.	99.8%	8.9	68	-	60	8.9	40	12,593.8	4,911.5

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COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	S/S TO GAS PROD (1000 m³)
Petroglobe Inc.	0.0%	7.5	69	5.3	56	2.2	50	124.1	7.5
Raimount Energy Inc.	0.0%	7.3	70	7.2	55	0.1	59	78.5	7.3
Sekur Energy Management Corp.	86.6%	7.0	71	-	60	7.0	41	198.2	52.2
Custom Energy Group Ltd.	42.4%	6.8	72	-	60	6.8	42	1,659.8	11.8
935821 Alberta Ltd.	0.0%	4.8	73	-	60	4.8	45	884.0	4.8
Exell Energy Corporation	0.0%	4.7	74	-	60	4.7	46	405.6	4.7
Anterra Energy Inc.	73.7%	3.6	75	-	60	3.6	47	1,246.5	13.7
Corex Resources Ltd.	97.4%	2.8	76	2.8	58	-	60	220.6	107.5
Taber Water Disposal Inc.	0.0%	2.8	76	-	60	2.8	48	101.2	2.8
Response Energy Corporation	99.6%	2.6	77	-	60	2.6	49	1,600.6	676.0
Ruger Energy Inc.	97.0%	2.6	77	-	60	2.6	49	663.5	87.2
Band Energy Resources Ltd.	80.3%	1.3	78	-	60	1.3	52	280.8	6.6
Exoro Energy Inc.	99.6%	1.3	78	1.3	59	-	60	379.1	291.6
Northern Hunter Energy Inc.	99.8%	1.2	79	-	60	1.2	53	968.6	509.9
Red Coat Oil & Gas (2005) Ltd.	0.0%	1.1	80	-	60	1.1	54	107.0	1.1
Edalis Energy Inc.	94.2%	0.6	81	-	60	0.6	56	850.1	10.4
Ascent Energy Ltd.	98.4%	0.5	82	-	60	0.5	57	185.5	30.7
1288131 Alberta Ltd.	100.0%	-	83	-	60	-	60	729.6	347.5
1506928 Alberta Ltd.	100.0%	-	83	-	60	-	60	1,116.9	18.8
Avalon Energy Ltd.	100.0%	-	83	-	60	-	60	142.6	4.7
Blackspur Oil Corp.	100.0%	-	83	-	60	-	60	6,161.1	156.2
Canadian Coyote Energy Ltd.	100.0%	-	83	-	60	-	60	1,246.2	21.2
Coastal Resources Limited	0.0%	-	83	-	60	-	60	1.4	-
Edge Resources Inc.	100.0%	-	83	-	60	-	60	4,751.7	250.3
Eiger Energy Ltd.	100.0%	-	83	-	60	-	60	247.1	16.9
Enerstar Petroleum Corp.	100.0%	-	83	-	60	-	60	322.3	12.3
Fairwest Energy Corporation	100.0%	-	83	-	60	-	60	700.6	826.6
InPlay Oil Corp.	100.0%	-	83	-	60	-	60	50.3	48.4
International Frontier Resources Corporation	100.0%	-	83	-	60	-	60	2,286.4	89.1
Invicta Energy Corp.	100.0%	-	83	-	60	-	60	125.6	126.8
Ki Exploration Inc.	100.0%	-	83	-	60	-	60	714.3	42.3
Lateral Capital Corp.	0.0%	-	83	-	60	-	60	18.5	-
Logic Energy Ltd.	100.0%	-	83	-	60	-	60	215.5	222.1
Silver Bay Resources Ltd.	100.0%	-	83	-	60	-	60	156.4	246.5
Westdrum Energy Ltd.	100.0%	-	83	-	60	-	60	7.3	68.3

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[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tullich Energy Ltd	50.0%	8.0	75	-	50	8.0	49	394.5	1,241.0
Cluaran Resources Limited	55.0%	8.0	71	-	55	8.0	49	562.1	586.1
Cairngorm Blue Western Canada Partnership	50.0%	7.0	72	-	55	7.0	50	102.6	677.8
Flagstone Energy Inc.	3.0%	4.0	73	0.4	45	3.9	68	317.5	8.9
Skyward Wave Petroleum Inc.	3.0%	3.8	74	1.2	34	3.4	53	438.7	6.8
Goldenhill Oil Inc.	3.0%	8.0	75	2.5	10	6.8	59	284.2	9.3
Quay Energy Ltd	3.0%	9.2	76	9.2	01	-	71	234.5	9.2
Lang Rise Resources Canada Ltd	55.7%	3.5	77	3.7	55	2.6	57	536.3	1,328.4
Tarnham Energy Corporation	55.0%	2.7	78	-	55	2.7	56	552.4	731.5
Jaxx Energy Limited	55.7%	2.4	79	-	56	2.4	58	191.2	18.1
Sphere Energy Corp.	56.7%	2.4	70	-	50	2.4	58	2,039.7	61.2
Corvair Energy Ltd	3.0%	2.2	40	-	55	2.2	58	208.8	2.2
Rise Resources Corp.	3.0%	2.2	40	2.0	10	2.2	60	170.4	2.2
Standard Exploration Ltd.	55.0%	2.0	01	-	55	2.0	60	26.5	4.8
Angle Energy Inc.	50.0%	1.8	02	-	56	1.8	61	66.3	2,000.4
Tunnelhook Energy Corp.	56.7%	1.5	03	-	50	1.5	64	540.8	7.5
Jael Energy Ltd	45.0%	1.0	04	-	55	1.0	65	82.5	8.7
The Ladle Shell & Metal Company Ltd	3.0%	1.0	04	-	56	1.0	65	481.0	1.0
Marquee Energy Ltd	55.7%	0.8	05	-	25	0.6	68	422.6	104.4
Roughrider Petroleum Ltd.	3.0%	0.2	06	-	10	0.2	69	0.2	0.2
Ketterly Exploration Ltd.	56.0%	5.1	07	-	56	3.1	73	17.5	106.3
Vermilion Energy Inc.	3.0%	3.1	07	-	50	3.1	70	20.6	3.1
PetroTal Ltd.	100.0%	-	40	-	00	-	71	2,378.7	2,310.9
Argosy Energy Inc.	100.0%	-	40	-	00	-	71	326.2	210.2
Avalon Energy Ltd.	100.0%	-	40	-	00	-	71	85.6	56.3
Marvel Energy Inc.	100.0%	-	40	-	00	-	71	11,410.9	5,200.9
Connaught Oil & Gas Ltd.	3.0%	-	40	-	00	-	71	246.7	-
Cider Energy Inc.	100.0%	-	40	-	00	-	71	434.8	731.4
Devon Canada	100.0%	-	40	-	00	-	71	7,902.6	4,304.1
Asset Energy Marketing Limited	100.0%	-	40	-	00	-	71	410.8	186.8
Cabre Energy Inc.	100.0%	-	40	-	00	-	71	2,260.4	904.2
Fairwest Energy Corporation	100.0%	-	40	-	00	-	71	27.8	4.0
Aurelia Energy Corp.	3.0%	-	40	-	00	-	71	1.2	-
K Exploration Inc.	100.0%	-	40	-	00	-	71	677.4	3,041.5
Logan Energy Ltd.	100.0%	-	40	-	00	-	71	7,234.3	8,439.7

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COMPANY[1]	GAS CONS	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	SOL'N GAS PROD (1000 m³)
Mika Resources Ltd.	100.0%	-	88	-	56	-	71	107.4	712.7
Petro Viking Management Corp.	100.0%	-	88	-	56	-	71	247.8	1.1
Rockbridge Energy Alberta Inc.	100.0%	-	88	-	56	-	71	53.6	46.4
Verity Energy Ltd.	100.0%	-	88	-	56	-	71	329.1	2.8
Westblum Energy Ltd.	100.0%	-	88	-	56	-	71	164.6	150.9
Williston Hunter Canada, Inc.	100.0%	-	88	-	56	-	71	332.6	172.5
TOTALS FOR MONAPORE	**96.3%**	**46,124.7**		**37,714.1**		**8,410.6**		**1,861,889.6**	**973,644.5**

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FIELD CENTRE RANKING OF OPERATORS – 2013 FLARED + VENTED VOLUME[1]
RED DEER CRUDE OIL AND CRUDE BITUMEN BATTERIES FOR ALBERTA
RUN DATE: May 12, 2014

COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PROD (m^3)	SOL'N GAS PROD (1000 m^3)
Pengrowth Energy Corporation	97.6%	6,722.8	1	6,204.3	1	518.5	8	340,557.8	280,363.9
Bellatrix Exploration Ltd.	98.0%	5,455.5	2	5,251.3	2	204.2	15	74,746.7	275,382.0
Bonavista Energy Corporation	97.7%	5,168.7	3	3,082.7	3	2,086.0	1	225,470.9	226,995.9
Lightstream Resources Ltd.	83.1%	2,849.7	4	2,839.2	4	10.5	61	5,509.8	16,906.0
Manitok Energy Inc.	95.6%	2,565.1	5	2,565.1	5	-	90	168,717.9	58,830.1
Bearspaw Petroleum Ltd.	66.2%	2,457.1	6	2,455.0	6	2.1	78	42,990.4	7,275.5
Whitecap Resources Inc.	98.5%	2,443.4	7	1,499.7	9	943.7	4	201,734.8	159,997.7
Angle Energy Inc.	98.2%	2,378.2	8	675.7	18	1,702.5	2	146,588.9	133,936.7
Encana Corporation	51.5%	2,225.6	9	2,169.0	7	56.6	36	20,522.8	4,589.8
Penn West Petroleum Ltd.	99.4%	2,029.7	10	1,401.7	10	628.0	6	342,702.0	365,146.6
Yangarra Resources Corp.	97.8%	1,760.7	11	1,692.0	8	68.7	33	47,278.6	81,532.3
Devon Canada	99.0%	1,694.3	12	1,322.8	11	371.5	11	137,135.8	166,484.1
Glencoe Resources Ltd.	99.6%	1,338.6	13	-	91	1,338.6	3	59,406.5	350,228.9
Apache Canada Ltd.	99.0%	1,165.4	14	698.4	17	467.0	9	33,697.6	118,371.2
ExxonMobil Canada Ltd. & ExxonMobil Resources Comp	99.1%	1,058.8	15	1,006.1	13	52.7	39	218,815.3	117,676.1
Tamarack Acquisition Corp.	0.0%	1,046.2	16	1,046.2	12	-	90	7,372.9	1,046.2
NAL Resources Limited	98.9%	1,038.3	17	481.7	23	556.6	7	121,540.3	90,262.2
Husky Oil Operations Limited	98.6%	969.1	18	247.1	30	722.0	5	51,192.5	70,740.4
Conocophillips Western Canada Partnership	99.3%	875.8	19	794.0	14	81.8	32	139,024.1	122,072.8
Anderson Energy Ltd.	98.6%	764.0	20	742.8	15	21.2	53	65,731.6	53,119.1
Crescent Point Energy Corp.	90.1%	754.1	21	713.5	16	40.6	46	18,431.1	7,607.0
Tournament Exploration Ltd.	98.3%	754.0	22	582.4	19	171.6	17	32,737.7	44,679.3
Velvet Energy Ltd.	98.4%	636.9	23	554.9	21	82.0	31	19,069.1	38,592.9
Artisan Energy Corporation	59.2%	581.1	24	574.5	20	6.6	69	5,601.0	1,424.1
Exoro Energy Inc.	93.9%	498.9	25	498.9	22	-	90	18,995.8	8,110.4
TAQA North Ltd.	99.6%	474.4	26	93.5	50	380.9	10	126,407.4	127,863.8
Baccalieu Energy Inc.	96.2%	446.1	27	280.1	26	166.0	18	17,174.9	11,676.9
CQ Energy Canada Resources Partnership	99.4%	419.4	28	419.4	24	-	90	168,808.8	65,798.1
Bonterra Energy Corp.	99.1%	384.6	29	276.0	27	108.6	22	8,085.4	40,453.0
Hyperion Exploration Corp.	95.2%	359.2	30	-	91	359.2	12	8,141.2	7,485.0
Tamarack Valley Energy Ltd.	94.1%	358.4	31	0.1	90	358.3	13	20,100.4	6,094.2
Canadian Natural Resources Limited	98.3%	332.3	32	189.0	34	143.3	19	35,571.4	19,013.9
Birchill Exploration Corp.	93.7%	331.4	33	331.4	25	-	90	3,810.0	5,283.9
Coda Petroleum Inc.	87.6%	277.2	34	268.2	28	9.0	65	3,626.3	2,233.9
Mancal Energy Inc.	87.8%	272.0	35	189.2	33	82.8	30	52,479.3	2,223.4

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COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	SOL'N GAS PROD (1000 m³)
Harvest Operations Corp.	99.7%	257.4	36	162.0	38	95.4	26	98,461.8	81,029.1
Crew Energy Inc.	90.3%	257.1	37	257.1	29	-	90	3,384.6	2,649.5
Longview Oil Corp.	99.3%	245.0	38	7.0	77	238.0	14	34,412.8	37,235.6
EOG Resources Canada Inc.	99.3%	234.2	39	116.5	45	117.7	21	30,500.0	32,214.8
South Bay Resources Canada, ULC	19.7%	232.3	40	232.3	31	-	90	2,781.1	289.4
Canadian Oil & Gas International Inc.	89.4%	231.4	41	229.0	32	2.4	77	9,083.3	2,184.8
Signalta Resources Limited	90.3%	223.9	42	173.9	36	50.0	43	7,219.1	2,299.7
Vesta Energy Ltd.	97.6%	217.3	43	112.2	46	105.1	24	3,457.9	8,994.2
Home Quarter Resources Ltd.	78.1%	202.3	44	177.6	35	24.7	51	1,219.4	922.8
Arrow Point Oil & Gas Ltd.	95.1%	193.5	45	100.4	49	93.1	27	8,157.7	3,906.1
Butte Energy Inc.	0.0%	189.2	46	-	91	189.2	16	75.0	189.2
Hard Rock Resources Ltd.	42.9%	175.3	47	158.2	39	17.1	57	1,664.2	306.8
Santonia Energy Inc.	98.9%	166.1	48	165.4	37	0.7	85	42,237.6	14,506.9
ConocoPhillips Canada (BRC) Partnership	99.6%	161.8	49	23.8	70	138.0	20	18,792.5	38,306.0
Relentless Resources Ltd.	81.7%	151.0	50	151.0	40	-	90	958.4	824.3
Birchill Exploration Limited Partnership	98.6%	146.7	51	146.7	41	-	90	11,162.0	10,252.5
Fogo Energy Corp.	16.4%	140.9	52	128.1	44	12.8	59	1,413.9	168.6
Alexander Oilfield Services Ltd.	74.4%	132.9	53	132.9	42	-	90	1,280.2	519.4
Sitka Exploration Ltd.	0.0%	129.0	54	129.0	43	-	90	68.6	129.0
Chinook Energy Partnership	99.1%	122.6	55	67.1	52	55.5	37	6,932.1	14,186.1
Wolf Coulee Resources Inc.	3.2%	120.5	56	108.8	47	11.7	60	627.7	124.5
Bashaw Oil Ltd.	92.4%	108.4	57	-	91	108.4	23	26,882.0	1,423.7
Suncor Energy E&p Partnership	99.1%	104.5	58	104.5	48	-	90	26,483.7	11,724.1
Conocophillips Canada Energy Partnership	99.7%	102.0	59	12.5	75	89.5	28	42,531.8	31,946.4
Sekur Energy Management Corp.	15.5%	97.3	60	-	91	97.3	25	447.5	115.1
Baytex Energy Ltd.	98.7%	87.8	61	41.0	62	46.8	44	10,830.0	6,975.7
Bumper Development Corporation Ltd.	98.0%	85.2	62	-	91	85.2	29	4,888.6	4,275.5
Clearbrook Resources Inc.	0.4%	80.5	63	80.5	51	-	90	1,271.6	80.8
Garnet Resources Ltd.	45.8%	77.8	64	19.1	71	58.7	35	448.7	143.4
Sun Century Petroleum Corporation	64.7%	72.9	65	63.9	55	9.0	65	965.9	206.6
Regent Resources Ltd.	98.6%	68.9	66	64.2	54	4.7	73	19,393.3	4,997.8
TimberRock Energy Corp.	25.5%	65.4	67	65.3	53	0.1	89	109.2	87.8
Barrick Energy Inc.	96.0%	60.3	68	-	91	60.3	34	3,047.4	1,467.1
Westdrum Energy Ltd.	87.6%	55.5	69	4.6	82	50.9	41	950.8	446.7
Grandview Exploration Inc.	70.3%	54.3	70	54.3	56	-	90	6,132.0	183.1

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COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m^3)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m^3)	FLARE RANK	GAS VENTED (1000 m^3)	VENT RANK	OIL PRICE ($/$m^3$)	OIL-TO-GAS PRICE (1000 m^3)
Energitus Corporation	97.1%	53.7	71	-	91	53.7	36	2,168.4	1,266.7
Conserve Oil Corporation	95.6%	53.4	72	53.4	57	-	90	8,423.1	3,658.8
Ember Resources Inc.	95.0%	51.8	73	-	91	51.8	40	3,351.7	1,234.1
Mato Inc.	95.9%	50.8	74	-	91	50.8	42	556.0	1,230.6
Enhance Energy Inc.	99.3%	50.7	75	50.5	58	0.2	88	16,435.6	8,947.2
Trevon Oil Operations Ltd.	98.7%	48.5	76	3.8	84	44.7	45	15,138.2	11,210.8
Direct Energy Marketing Limited	99.6%	47.8	77	41.5	62	6.3	70	11,440.9	10,624.5
Questfire Energy Corp.	99.6%	47.2	78	45.7	59	1.5	61	5,705.6	12,982.3
Journey Energy Inc.	97.5%	44.5	79	14.1	73	29.4	52	2,412.9	1,744.2
Rock Energy Inc.	98.9%	43.2	80	41.1	61	2.1	79	2,998.7	3,853.1
Advantage Oil & Gas Ltd.	99.4%	41.2	81	36.3	64	4.9	71	3,488.7	5,734.8
Imperial Oil Resources	99.9%	39.8	82	31.6	65	8.2	66	40,919.5	40,859.9
South Ridge Management Ltd.	0.0%	39.0	83	39.0	53	-	93	248.4	95.9
Omers Energy Inc.	99.7%	38.3	84	31.3	66	7.0	67	22,972.6	14,722.9
Golden Spike Energy Inc.	32.1%	37.3	85	-	91	37.3	47	348.5	12.9
Gold Ridge Investments Corporation	0.0%	36.3	86	-	91	36.3	48	175.1	36.8
Vermilion Energy Inc.	98.0%	34.5	87	-	91	34.5	49	1,918.0	1,881.8
Tuno Energy Corporation	2.0%	29.7	88	29.7	67	-	95	559.1	29.7
Central Global Resources, ULC	99.5%	29.6	89	29.6	68	-	89	8,648.0	5,379.6
Kiwidron Energy Corporation	99.5%	29.2	90	8.2	76	20.0	54	7,450.0	4,758.6
Scollard Energy Inc.	99.9%	24.8	91	6.8	78	18.0	56	12,866.0	25,535.9
TORC Oil & Gas Ltd.	0.0%	24.7	92	24.3	69	0.4	85	72.1	24.7
Mosaic Energy Ltd.	99.3%	23.9	93	-	91	23.9	52	3,366.0	3,362.9
Forge Petroleum Corporation	99.1%	16.7	94	16.7	72	-	96	96,235.5	2,172.7
Silver Blade Energy Ltd.	41.0%	16.1	95	-	91	16.1	55	109.1	95.7
Sagar Resources Ltd.	99.1%	15.9	96	-	91	15.9	56	696.3	1,346.0
Zargon Oil & Gas Ltd.	97.7%	15.8	97	6.5	79	9.3	64	1,913.6	674.5
Conserve Oil 6th Corporation	99.3%	13.0	98	13.0	74	-	99	3,983.5	1,324.6
Superchain Resources Inc.	99.9%	11.4	99	1.7	86	9.7	63	8,998.9	6,943.7
Tykewest Limited	91.7%	10.0	100	-	91	10.0	62	958.6	135.8
Forent Energy Ltd.	95.3%	9.6	101	3.7	81	2.9	74	874.7	203.3
Shengel Resources Ltd.	97.1%	8.9	102	-	91	8.9	69	183.9	236.9
Conserve Oil & Gas No. II Corporation	99.9%	8.2	103	8.2	80	-	98	23,635.3	4,115.0
Summerland Energy Inc.	99.8%	4.8	104	-	91	4.8	73	6,231.7	2,983.8
Questfire Exploration and Production Ltd.	99.1%	4.1	105	4.1	83	-	99	160.0	466.7

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COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	SOL'N GAS PROD (1000 m³)
Vesta Energy Ltd.	93.6%	378.0	36	378.0	29	-	90	5,016.4	5,944.0
Crimson Oil & Gas Ltd.	21.0%	335.8	37	50.0	57	285.8	18	6,586.7	425.3
Texoco Petroleums Ltd.	70.2%	332.5	38	-	95	332.5	16	2,499.6	1,116.7
Nordegg Resources Inc.	90.9%	317.4	39	317.4	34	-	90	16,298.9	3,500.7
Midlake Oil & Gas Limited	24.7%	209.3	40	-	95	209.3	23	1,750.7	277.9
Novus Energy Inc.	26.7%	203.9	41	203.9	36	-	90	1,285.4	278.3
Coastal Resources Limited	72.7%	190.4	42	173.8	39	16.6	56	10,082.0	696.3
Spyglass Resources Corp.	48.8%	188.6	43	157.5	40	31.1	46	7,942.8	368.5
Shiningstar Energy Ltd.	77.3%	177.5	44	177.5	38	-	90	583.2	781.8
Talisman Energy Inc.	77.9%	171.0	45	143.6	42	27.4	49	3,687.0	773.0
Signalta Resources Limited	2.0%	168.5	46	4.1	85	164.4	25	1,894.3	171.9
Exall Energy Corporation	97.6%	162.8	47	74.2	52	88.6	31	88,322.9	6,790.3
Barnwell of Canada, Limited	22.1%	161.1	48	138.0	43	23.1	52	4,954.5	206.9
Bumper Development Corporation Ltd.	0.0%	144.0	49	144.0	41	-	90	41.9	144.0
Vermilion Energy Inc.	95.5%	141.5	50	124.1	45	17.4	54	53,027.9	3,163.2
Enerplus Corporation	99.5%	124.5	51	74.7	51	49.8	41	43,893.6	27,070.3
Ravenwood Energy Corp.	47.2%	119.9	52	119.9	46	-	90	3,350.7	227.0
Regco Petroleums Ltd.	0.0%	112.8	53	112.8	47	-	90	1,432.4	112.8
Seistech Energy Inc.	4.3%	104.4	54	104.4	48	-	90	339.9	109.1
Conocophillips Western Canada Partnership	98.7%	96.1	55	96.1	49	-	90	45,504.4	7,382.8
Dark Energy Ltd.	69.2%	93.9	56	-	95	93.9	30	5,637.3	304.8
AvenEx Energy Corp.	58.7%	93.7	57	84.6	50	9.1	65	3,373.5	227.1
Mosaic Energy Ltd.	98.6%	87.8	58	-	95	87.8	32	26,794.7	6,222.2
Questfire Energy Corp.	0.0%	82.3	59	-	95	82.3	33	2,315.7	82.3
Whitecap Resources Inc.	87.1%	77.6	60	47.5	59	30.1	48	3,069.0	603.3
Pace Oil & Gas Ltd.	0.4%	73.6	61	62.0	53	11.6	63	1,443.3	73.9
Whitehall Energy Ltd.	74.3%	73.5	62	-	95	73.5	34	4,010.6	285.8
Bonterra Energy Corp.	85.0%	66.4	63	3.0	87	63.4	36	2,167.7	442.3
Rustum Petroleums Limited	6.0%	64.1	64	48.6	58	15.5	58	2,564.0	68.2
Shoreline Energy Corp.	0.0%	63.1	65	-	95	63.1	37	1,202.9	63.1
Chinook Energy Partnership	6.9%	63.0	66	-	95	63.0	38	136.7	67.7
Border Acquisition Corporation	96.6%	62.2	67	61.8	54	0.4	87	1,228.8	1,811.5
Sinopec Daylight Energy Ltd.	93.4%	57.0	68	41.2	64	15.8	57	4,388.8	857.0
Border Petroleum Limited	0.0%	55.6	69	-	95	55.6	40	1,324.6	55.6
Arsenal Energy Inc.	89.1%	55.5	70	46.7	61	8.8	66	15,362.1	508.6

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Newalta Corporation	0.0%	55.1	71	55.1	55	-	90	477.8	55.1
Brevia Energy Inc.	93.3%	54.4	72	54.4	56	-	90	4,740.8	812.6
Persta Resources Inc.	75.6%	52.7	73	44.2	62	8.5	67	7,856.7	215.9
Advantage Oil & Gas Ltd.	0.0%	49.6	74	-	95	49.6	42	1,133.6	49.6
Sundance Energy Corporation	0.0%	47.5	75	47.5	59	-	90	78.5	47.5
Painted Pony Petroleum Ltd.	22.7%	47.0	76	47.0	60	-	90	56.4	60.8
Surat Energy Inc.	0.0%	46.9	77	27.5	68	19.4	53	914.8	46.9
Beaver Lake Resources Corporation	0.0%	43.2	78	43.2	63	-	90	666.8	43.2
Santonia Energy Inc.	0.0%	39.8	79	39.8	65	-	90	193.1	39.8
Scollard Energy Inc.	75.7%	39.7	80	-	95	39.7	43	181.7	163.2
Indra Oil & Gas Ltd.	0.0%	39.2	81	39.2	66	-	90	771.2	39.2
Iteration Energy	0.0%	37.9	82	-	95	37.9	44	1,895.2	37.9
Blackpearl Resources Inc.	99.9%	31.8	83	31.8	67	-	90	206,586.0	23,676.0
New North Resources Ltd.	0.0%	30.2	84	-	95	30.2	47	574.0	30.2
Kootenay Energy Inc.	90.4%	24.9	85	24.9	69	-	90	6,136.8	258.9
Peyto Exploration & Development Corp.	82.5%	24.8	86	-	95	24.8	50	270.2	141.6
Primrose Drilling Ventures Ltd.	0.0%	23.6	87	-	95	23.6	51	478.7	23.6
Bonavista Energy Corporation	99.4%	23.1	88	18.0	71	5.1	69	1,490.3	3,624.9
Barrick Energy Inc.	10.0%	20.7	89	15.9	73	4.8	70	1,189.9	23.0
Cougar Oil And Gas Canada Inc.	0.0%	20.2	90	5.7	81	14.5	60	323.0	20.2
Direct Energy Marketing Limited	99.4%	19.3	91	19.3	70	-	90	6,485.9	3,288.6
XTO Energy Canada	99.4%	18.8	92	8.1	79	10.7	64	5,719.8	3,379.5
Terrex Energy Inc.	99.2%	18.4	93	17.2	72	1.2	85	6,195.7	2,276.7
Journey Energy Inc.	99.9%	16.6	94	3.6	86	13.0	61	8,592.6	11,062.8
Redwater Energy Corp.	98.5%	14.8	95	11.8	75	3.0	74	4,073.8	988.7
Invicta Energy Corp.	0.0%	14.7	96	-	95	14.7	59	60.4	14.7
ConocoPhillips Canada (BRC) Partnership	99.7%	14.1	97	5.6	82	8.5	67	12,304.2	5,304.9
TAQA North Ltd.	99.9%	13.3	98	13.3	74	-	90	25,232.6	20,359.2
Koch Oil Sands Operating ULC	0.0%	12.6	99	-	95	12.6	62	3,201.7	12.6
Enhance Energy Inc.	0.9%	10.9	100	10.9	76	-	90	64.9	11.0
Jaco Energy Limited	95.7%	10.3	101	10.3	77	-	90	786.6	237.6
Artek Exploration Ltd.	99.9%	10.0	102	10.0	78	-	90	78,530.9	6,457.8
Sinopec Daylight Energy Ltd.	91.3%	8.5	103	6.2	80	2.3	77	540.3	97.4
Celtic Exploration ULC	99.8%	7.4	104	2.0	89	5.4	68	5,384.2	3,020.3
Perpetual Energy Operating Corp.	95.0%	6.6	105	4.8	84	1.8	79	438.5	132.9

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COMPANY	GAS CONS	GAS FLARED + VENTED (1000 m³)	GAS FLARED + VENTED RANK	GAS FLARED (1000 m³)	FLARE RANK	GAS VENTED (1000 m³)	VENT RANK	OIL PROD (m³)	SOL'N GAS PROD (1000 m³)
KinMerc Oil & Gas Inc.	66.1%	5.5	106	5.5	83	-	90	3,526.9	16.2
Gryphon Petroleum Corp.	0.0%	4.7	107	1.8	90	2.9	75	922.0	4.7
Potts Petroleum Inc.	87.4%	4.4	108	-	95	4.4	71	995.8	34.8
Wrangler West Energy Corp.	99.9%	3.6	109	2.3	88	1.3	84	5,840.8	4,791.2
Wildhorse Oil Corporation	73.7%	3.5	110	-	95	3.5	72	73.4	13.3
Nexxtep Resources Ltd.	99.5%	3.1	111	-	95	3.1	73	400.0	667.8
Eastnell Resources Ltd.	0.0%	2.9	112	-	95	2.9	75	107.8	2.9
Alka Resources Ltd.	94.8%	2.4	113	-	95	2.4	76	577.2	46.2
Delphi Energy Corp.	0.0%	2.3	114	-	95	2.3	77	642.7	2.3
Petrobank Energy and Resources Ltd.	0.0%	2.0	115	-	95	2.0	78	427.2	2.0
Hillsdale Drilling Ltd.	0.0%	1.7	116	-	95	1.7	80	295.8	1.7
Renegade Petroleum Ltd.	92.1%	1.7	116	1.6	91	0.1	89	1,744.0	21.5
Predator Oil Ltd.	0.0%	1.5	117	-	95	1.5	82	491.4	1.5
Fox Creek Petroleum Corp.	98.6%	1.4	118	-	95	1.4	83	538.3	100.0
Ish Energy Ltd.	95.5%	1.4	118	1.4	92	-	90	401.3	31.0
Velvet Energy Ltd.	100.0%	1.4	118	-	95	1.4	83	2,699.4	3,544.9
Owl River Resources Ltd.	13.3%	1.3	119	0.0	95	1.3	84	63.1	1.5
Bering Exploration, Company, Ulc	91.1%	1.2	120	0.0	95	1.2	85	505.3	13.5
Emerald Bay Energy Inc.	0.0%	1.0	121	0.0	95	1.0	86	161.9	1.0
Sabanero Energy Corp.	74.4%	1.0	121	-	95	1.0	86	195.1	3.9
Conserve Oil & Gas No. II Corporation	0.0%	0.5	122	0.5	93	0.0	90	86.0	0.5
AltaGas Ltd.	99.9%	0.4	123	-	95	0.4	87	218.6	616.3
One Earth Oil & Gas Inc.	99.9%	0.4	123	-	95	0.4	87	1,143.5	304.4
Black Swan Energy Ltd.	0.0%	0.2	124	-	95	0.2	88	211.7	0.2
Qwest Diversified Capital Corporation	100.0%	0.1	125	-	95	0.1	89	568.6	491.0
RMP Energy Inc.	100.0%	0.1	125	-	95	0.1	89	1,973.3	1,234.4
Sunrise Energy Ltd.	0.0%	0.1	125	0.1	94	-	90	187.5	0.1
Bernum Petroleum Ltd.	100.0%	-	126	-	95	-	90	1,107.0	612.3
Bounty Developments Ltd.	100.0%	-	126	-	95	-	90	226.2	6.0
Canadian Oil & Gas International Inc.	0.0%	-	126	-	95	-	90	0.2	-
Cequence Energy Ltd.	100.0%	-	126	-	95	-	90	350.5	26.9
Clearbrook Resources Inc.	100.0%	-	126	-	95	-	90	3,387.1	400.3
Conocophillips Canada Energy Partnership	100.0%	-	126	-	95	-	90	1,258.5	158.4
Corex Resources Ltd.	100.0%	-	126	-	95	-	90	148.2	16.6
Desmarais Energy Corporation	100.0%	-	126	-	95	-	90	907.8	929.8

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[illegible]

[illegible]

COMPANY	[illegible] (USD)	[illegible] (USD/BOE)	[illegible] (USD/BOE)	[illegible] (1000 m^3)	[illegible] (USD)	[illegible] (1000 m^3)	[illegible] (USD/BOE)	[illegible] (BOE)	[illegible] (m^3)	[illegible] (1000 m^3)
Response Energy Corporation	65.0%	30.0	71	–	73	30.0	35	1,840.3	65.0	
Reducing Petroleum Ltd.	3.0%	25.9	72	–	73	23.9	41	6,782.9	25.9	
Excellent Energy Inc.	37.0%	26.3	73	26.3	67	–	74	1,014.5	47.2	
Northern Gold Resources Inc.	71.0%	23.7	74	–	73	23.7	46	3,676.2	84.1	
Goodland Energy Ltd.	21.0%	23.1	75	–	73	23.1	47	510.3	25.4	
Spoke Oil And Gas Ltd.	52.0%	19.8	76	10.2	51	3.6	62	337.8	31.0	
Pavilion Energy Corp.	62.0%	19.3	77	–	73	19.3	51	2,730.8	35.4	
Polar Star Canadian Oil And Gas Inc.	3.0%	9.0	78	9.0	53	–	74	58.8	9.0	
Jaco Energy Limited	70.0%	8.7	79	8.5	55	2.2	63	1,134.3	36.1	
Alston Energy Inc.	68.0%	8.3	80	8.3	54	–	74	11,358.2	4,913.9	
Oak Resources Ltd.	97.7%	7.8	81	–	73	7.8	54	8,514.8	324.4	
Jayhawk Resources Ltd.	3.0%	6.8	82	6.5	55	3.1	73	255.8	6.6	
Endrina Resources Ltd.	3.0%	6.8	83	6.7	67	6.7	67	1,338.7	6.8	
Wildcat Rentals Ltd.	3.0%	6.3	84	–	73	6.3	58	1,558.9	5.3	
Jedi Energy Ltd.	70.0%	4.8	85	3.5	53	3.3	68	382.5	18.3	
Sahara Energy Ltd.	3.0%	4.2	86	–	73	4.2	60	865.9	4.2	
Optimal Resources Inc.	69.0%	3.5	87	–	73	3.2	61	145.2	28.1	
Gunner Resources Inc.	25.0%	2.1	88	–	73	2.1	64	516.5	2.5	
TAUS Bank Ltd.	66.3%	2.0	89	2.0	45	1.4	65	5,837.8	256.8	
Western Plains Petroleum Ltd.	3.0%	1.7	90	1.7	64	–	74	979.7	1.7	
Fox Oil And Gas Ltd.	3.0%	1.6	91	1.5	65	–	74	415.5	1.6	
LXF Energy Ltd.	3.0%	1.4	92	–	73	1.4	66	405.8	1.4	
Grand Rapids Petroleum Ltd.	3.0%	1.2	93	–	73	1.2	68	694.2	1.2	
Signalta Resources Limited	68.8%	1.2	93	–	73	1.2	68	250.6	831.3	
Orsara Energy Inc.	68.8%	0.8	94	–	73	0.8	69	1,02.7	451.8	
Tamarack Acquisition Corp.	3.0%	0.7	95	–	73	0.7	73	5,05.4	0.7	
Advantage Oil & Gas Ltd.	69.0%	0.6	96	0.6	68	–	74	23.3	4.0	
Freemont Resources Ltd.	69.8%	0.6	96	0.6	68	–	74	3,945.4	3.7	
Nordic Oil & Gas Ltd.	3.0%	0.6	96	–	73	0.6	71	297.7	0.6	
Superior Energy Corp.	80.4%	0.6	96	–	73	0.6	71	35.9	4.1	
Russell Petroleum Corporation	3.0%	0.4	97	–	73	0.4	72	79.3	0.4	
Sun Century Petroleum Corporation	68.3%	0.3	98	0.3	69	–	74	2,202.9	40.7	
Alpine Resources Ltd.	100.0%	0.1	99	–	73	0.1	73	11,545.3	265.2	
Baytex Energy Ltd.	100.0%	–	100	–	73	–	74	600.7	46.2	
Blackhawk Resource Operating Corp.	100.0%	–	100	–	73	–	74	1,100.1	56.1	

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Calfax Resources Ltd.	100.0%	-	100	-	70	-	74	1,276.9	88.2
Canadian Oil & Gas International Inc.	100.0%	-	100	-	70	-	74	742.3	33.5
Conserve Oil 6th Corporation	100.0%	-	100	-	70	-	74	3,905.8	179.9
Fox Creek Petroleum Corp.	100.0%	-	100	-	70	-	74	511.3	78.0
Hawk Exploration Ltd.	100.0%	-	100	-	70	-	74	13,297.2	1,864.5
Kasten Energy Inc.	100.0%	-	100	-	70	-	74	2,293.2	335.6
Northern Utilities (Sask.) Ltd.	100.0%	-	100	-	70	-	74	250.4	0.9
Perrone Petroleum Corporation	100.0%	-	100	-	70	-	74	757.6	7.6
Redwater Energy Corp.	100.0%	-	100	-	70	-	74	138.5	39.5
Spur Resources Ltd.	100.0%	-	100	-	70	-	74	3,375.7	3,318.0
Tamarack Valley Energy Ltd.	0.0%	-	100	-	70	-	74	13.6	-
Velvet Energy Ltd.	0.0%	-	100	-	70	-	74	61.6	-
Venturion Oil Limited	100.0%	-	100	-	70	-	74	22,994.0	863.0
Waldron Energy Corporation	100.0%	-	100	-	70	-	74	858.4	670.7
TOTALS FOR WAINWRIGHT	**79.9%**	**148,834.8**		**54,542.4**		**94,292.4**		**6,025,864.1**	**740,750.4**

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